

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533796

Luminaire Tested: **GALN-SA9B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39819 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

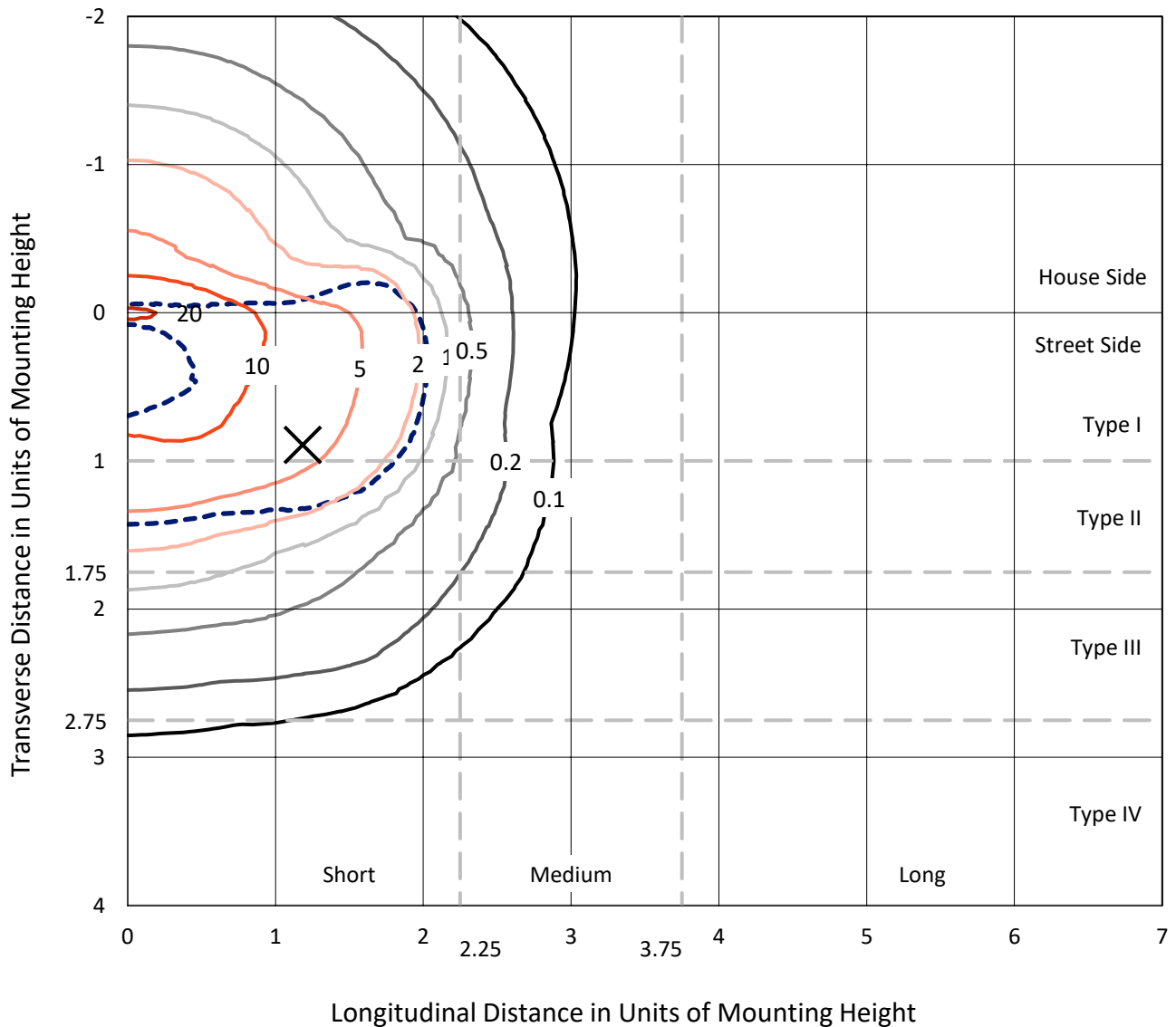
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533796
 CATALOG NUMBER: GALN-SA9B-730-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

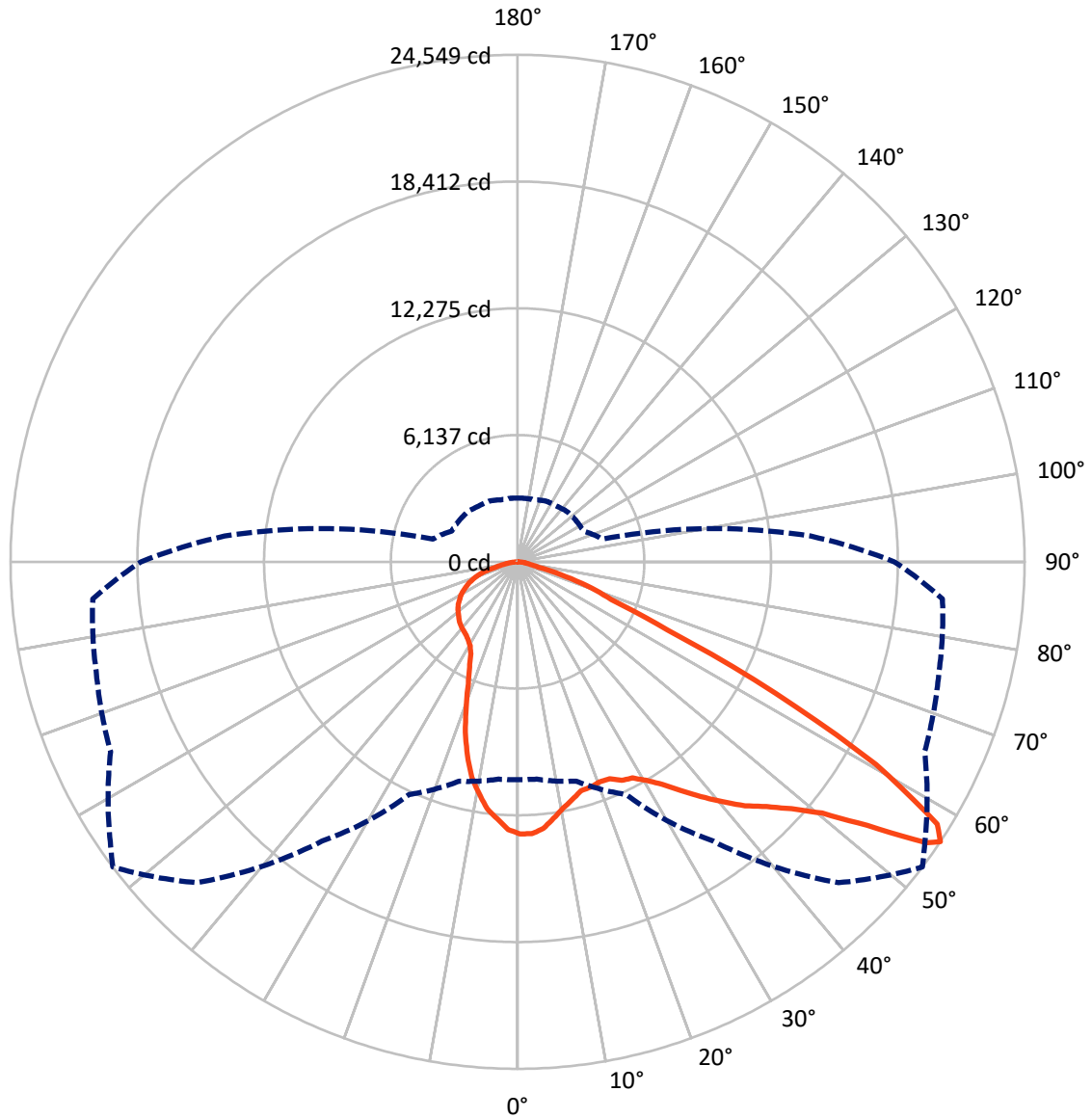
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc
 Type II - Short - N/A

REPORT NUMBER: P533796
CATALOG NUMBER: GALN-SA9B-730-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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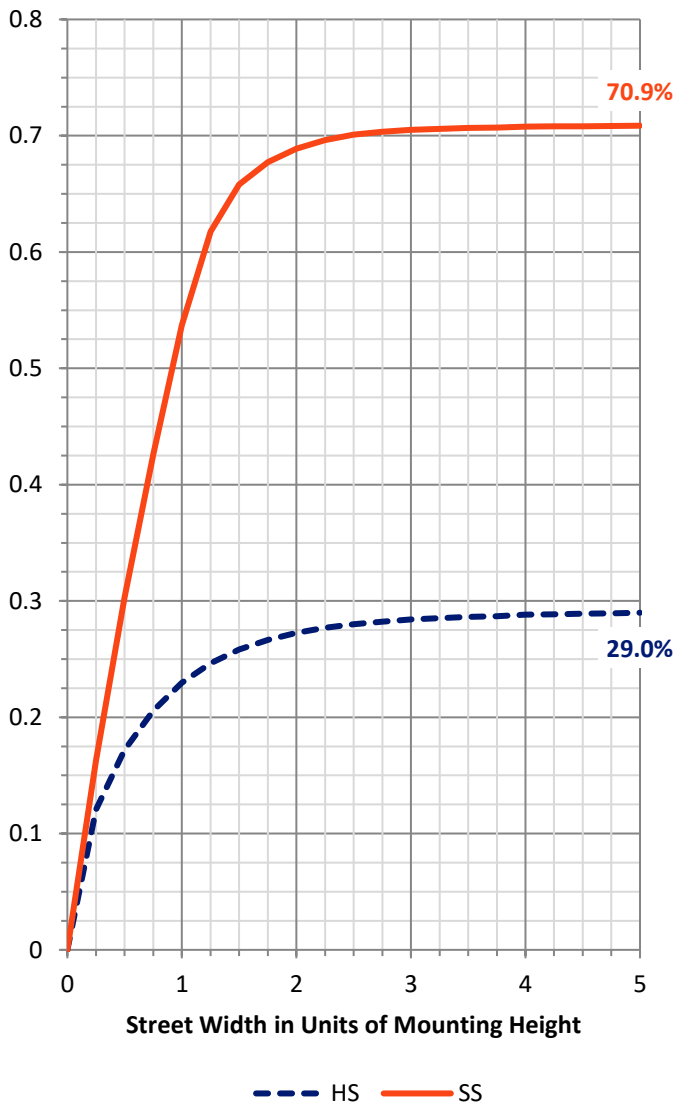
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11620.1	0.0	11620.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	28198.9	0.0	28198.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	39819.0	0.0	39819.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.2	2.9
10°-20°	2912.8	7.3
20°-30°	4295.2	10.8
30°-40°	6136.9	15.4
40°-50°	8446.7	21.2
50°-60°	9981.7	25.1
60°-70°	5319.6	13.4
70°-80°	1349.5	3.4
80°-90°	210.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39819.0	100.0
0°-180°	39819.0	100.0

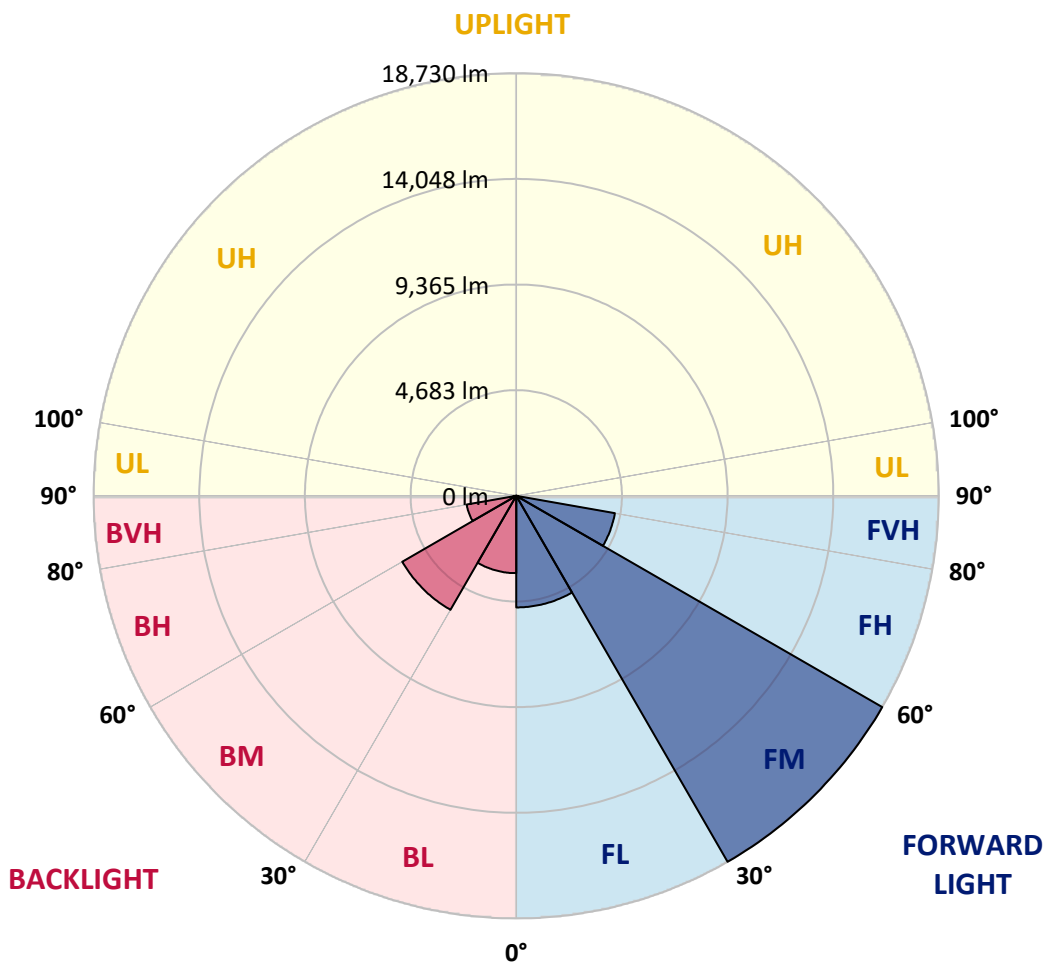


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4946.9	12.4			
FM (30°-60°)	18730.1	47.0			
FH (60°-80°)	4437.3	11.1			G2/5000
FVH (80°-90°)	84.6	0.2			G1/100
BL (0°-30°)	3427.2	8.6	B4/5000		
BM (30°-60°)	5835.2	14.7	B4/8500		
BH (60°-80°)	2231.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	125.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





REPORT NUMBER: P533796

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7
2.5°	13010.2	12897.9	12964.3	12938.7	13148.2	13209.5	13178.8	13204.3	13321.8	13265.6	13148.2
5°	12157.2	12315.5	12346.2	12422.8	12545.4	12785.5	12974.5	13025.6	13081.7	13342.3	13316.7
7.5°	11380.8	11488.0	11431.8	11656.6	11922.2	12310.4	12540.3	12581.2	13097.1	13240.1	13347.4
10°	10890.4	10783.1	11038.5	11099.8	11401.2	11845.6	12121.4	12290.0	12759.9	13326.9	13393.3
12.5°	10435.8	10400.0	10553.3	10726.9	11064.1	11523.8	11804.7	11871.1	12596.5	13194.1	13505.7
15°	10098.6	10057.8	10211.0	10338.7	10732.0	11140.7	11498.2	11687.2	12417.7	13117.5	13408.7
17.5°	9833.0	9827.9	9914.8	10144.6	10548.2	10890.4	11467.6	11477.8	12325.8	13235.0	13490.4
20°	9817.7	9812.6	9827.9	10083.3	10451.1	10870.0	11370.5	11462.5	12325.8	13153.3	13495.5
22.5°	9945.4	9863.7	9955.6	10119.1	10384.7	10905.7	11406.3	11610.6	12622.0	13556.8	13725.4
25°	10149.7	10170.2	10221.2	10277.4	10430.7	10987.4	11723.0	11891.6	12969.4	13904.1	14042.1
27.5°	10522.6	10512.4	10532.8	10563.5	10696.3	11064.1	11850.7	12284.9	13694.7	14522.2	14384.3
30°	11069.2	11033.4	11115.1	11222.4	11099.8	11309.3	12274.7	12601.6	14369.0	15145.4	14767.4
32.5°	11564.7	11697.5	11850.7	11896.7	11748.5	11789.4	12836.6	13168.6	14930.9	15911.6	15237.4
35°	12182.7	12290.0	12494.3	12637.3	12611.8	12489.2	13602.8	14042.1	15743.1	16473.5	15732.8
37.5°	12785.5	12913.2	13250.3	13674.3	13439.3	13383.1	14420.1	14782.7	15993.3	16774.9	16095.5
40°	13756.0	13750.9	14333.2	14552.9	14762.3	14665.2	15268.0	15390.6	16126.2	16708.5	16105.7
42.5°	14895.1	14823.6	15416.1	15758.4	16029.1	16039.3	16151.7	16110.8	16187.5	16371.3	15998.5
45°	15978.0	16131.3	16728.9	17341.9	17612.6	17643.2	16897.5	16820.9	16294.7	16274.3	15794.1
47.5°	17301.0	17336.8	17827.1	18634.2	19262.5	19048.0	17862.9	17694.3	16764.7	16923.0	16136.4
50°	17377.6	17643.2	18082.5	19032.6	20963.5	20907.3	19114.4	18797.7	17520.7	17842.5	17091.6
52.5°	15773.7	15712.4	16233.4	17786.3	20835.8	22756.4	21188.2	20432.3	19145.0	18899.8	18639.3
55°	12019.3	12162.3	12622.0	14190.2	18092.8	22782.0	24013.0	23394.9	20881.8	20462.9	20161.5
56°	10543.0	10563.5	10997.7	12427.9	16509.3	21969.8	24549.4	24048.8	21745.0	21106.5	20646.8
57.5°	8739.9	8622.4	8847.2	9628.7	13934.8	20253.5	23961.9	24452.3	22756.4	21801.2	21162.7
60°	6880.6	6855.0	6763.1	6906.1	8806.3	15257.8	19947.0	21050.3	22654.3	21147.4	20268.8
62.5°	5618.9	5491.2	5675.1	5879.4	6119.5	9465.2	14016.5	14665.2	17985.5	16882.1	15227.1
65°	4357.2	4295.9	4525.7	5189.8	5332.8	6012.2	7983.9	8484.5	10619.7	10430.7	9184.3
67.5°	2998.4	3008.6	3207.9	4219.3	4944.6	4883.3	4888.4	5148.9	5542.2	4117.1	3585.9
70°	1900.2	1895.1	2002.4	2717.5	3979.2	4020.0	3815.7	3739.1	3545.0	2145.4	2273.1
72.5°	1220.8	1185.1	1241.3	1501.8	2058.5	2380.4	2451.9	2497.8	2053.4	1685.7	1828.7
75°	689.6	653.8	633.4	699.8	812.2	939.9	1031.8	1062.5	1190.2	1277.0	1353.6
77.5°	209.4	189.0	229.9	306.5	403.5	541.5	658.9	679.4	802.0	904.1	980.7
80°	91.9	102.2	143.0	204.3	286.1	383.1	464.8	495.5	577.2	653.8	674.3
82.5°	56.2	61.3	97.1	137.9	199.2	270.7	332.0	342.2	424.0	485.3	500.6
85°	20.4	25.5	51.1	81.7	127.7	173.7	173.7	189.0	173.7	173.7	189.0
87.5°	0.0	0.0	5.1	10.2	10.2	15.3	20.4	20.4	25.5	30.6	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7	13173.7
2.5°	13209.5	13183.9	13143.0	12994.9	12979.6	12933.6	12678.2	12637.3	12678.2	12555.6	12565.8
5°	13183.9	13260.5	12954.0	12805.9	12530.1	12330.9	12101.0	11983.5	11774.1	11641.3	11789.4
7.5°	13296.3	13265.6	12882.5	12560.7	12147.0	11641.3	11237.7	11007.9	10640.1	10537.9	10614.6
10°	13255.4	13092.0	12642.5	12218.5	11437.0	10992.6	10338.7	9705.3	9358.0	9179.2	9153.6
12.5°	13199.2	13153.3	12402.4	11671.9	10849.5	9914.8	8995.3	8397.7	7830.7	7585.5	7621.2
15°	13265.6	12877.4	11952.9	11028.3	9935.2	8709.2	7718.3	6947.0	6553.6	6395.3	6395.3
17.5°	13235.0	12744.6	11738.3	10308.1	8923.8	7473.1	6385.1	5920.2	5756.8	5756.8	5802.8
20°	13250.3	12831.5	11304.1	9587.8	7728.5	6293.1	5501.4	5332.8	5404.3	5429.9	5455.4
22.5°	13337.2	12545.4	10880.2	8796.1	6620.0	5383.9	4995.7	5000.8	5128.5	5266.4	5240.9
25°	13444.4	12433.0	10364.3	8009.4	5772.1	4939.5	4816.9	4801.6	4898.6	4970.1	4980.4
27.5°	13352.5	12238.9	9838.1	7028.7	5077.4	4643.2	4617.7	4627.9	4658.6	4801.6	4755.6
30°	13653.9	12295.1	9179.2	6206.3	4694.3	4546.2	4515.5	4500.2	4546.2	4587.0	4551.3
32.5°	14026.7	12095.9	8688.8	5414.5	4505.3	4474.7	4413.4	4392.9	4418.5	4377.6	4398.0
35°	14190.2	12060.1	8050.3	4847.6	4357.2	4331.6	4295.9	4290.8	4295.9	4260.1	4229.5
37.5°	14282.1	12228.7	7319.9	4587.0	4265.2	4290.8	4209.0	4198.8	4106.9	4127.3	4142.6
40°	14440.5	11968.2	6727.3	4336.7	4209.0	4158.0	4086.5	4071.1	4009.8	3974.1	4009.8
42.5°	14210.6	11891.6	6145.0	4229.5	4127.3	4071.1	4020.0	3933.2	3912.8	3882.1	3861.7
45°	14026.7	11452.3	5624.0	4096.7	4030.3	3999.6	3902.6	3810.6	3734.0	3764.6	3718.7
47.5°	14164.7	11299.0	5108.1	3984.3	3897.5	3861.7	3764.6	3693.1	3616.5	3580.8	3570.5
50°	14716.3	11585.1	4673.9	3902.6	3785.1	3764.6	3636.9	3555.2	3483.7	3458.2	3468.4
52.5°	16034.2	12366.6	4377.6	3734.0	3677.8	3585.9	3514.3	3412.2	3366.2	3284.5	3335.6
55°	17704.5	13638.5	4301.0	3575.6	3545.0	3463.3	3366.2	3289.6	3202.8	3136.4	3121.0
56°	18240.9	14246.4	4239.7	3514.3	3463.3	3417.3	3289.6	3243.6	3105.7	3090.4	3080.2
57.5°	18675.1	14782.7	4249.9	3396.9	3345.8	3304.9	3228.3	3115.9	3024.0	2967.8	2993.3
60°	17694.3	13837.7	4055.8	3218.1	3207.9	3131.2	3024.0	2972.9	2860.5	2794.1	2778.8
62.5°	13153.3	9393.7	3289.6	2988.2	2983.1	2901.4	2778.8	2722.6	2702.2	2610.2	2610.2
65°	7575.3	5889.6	2845.2	2799.2	2758.4	2676.6	2554.0	2508.1	2457.0	2426.3	2400.8
67.5°	3233.4	3054.6	2584.7	2579.6	2533.6	2431.4	2308.8	2237.3	2170.9	2109.6	2140.3
70°	2344.6	2380.4	2334.4	2308.8	2252.7	2125.0	2017.7	1930.8	1828.7	1787.8	1818.5
72.5°	1859.3	1936.0	2002.4	2007.5	1941.1	1792.9	1675.4	1558.0	1445.6	1389.4	1414.9
75°	1409.8	1460.9	1527.3	1542.6	1445.6	1343.4	1231.0	1108.4	1021.6	955.2	965.4
77.5°	1016.5	1006.3	1067.6	1057.4	1011.4	939.9	837.7	725.3	628.3	567.0	572.1
80°	694.7	710.0	745.8	740.7	684.5	638.5	561.9	469.9	398.4	347.3	337.1
82.5°	485.3	510.8	541.5	515.9	469.9	424.0	367.8	301.4	245.2	204.3	194.1
85°	173.7	199.2	229.9	245.2	260.5	250.3	209.4	168.6	122.6	102.2	97.1
87.5°	35.8	40.9	46.0	46.0	46.0	40.9	35.8	35.8	30.6	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)