

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: P530528

Luminaire Tested: **GALN-SA5D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29594 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

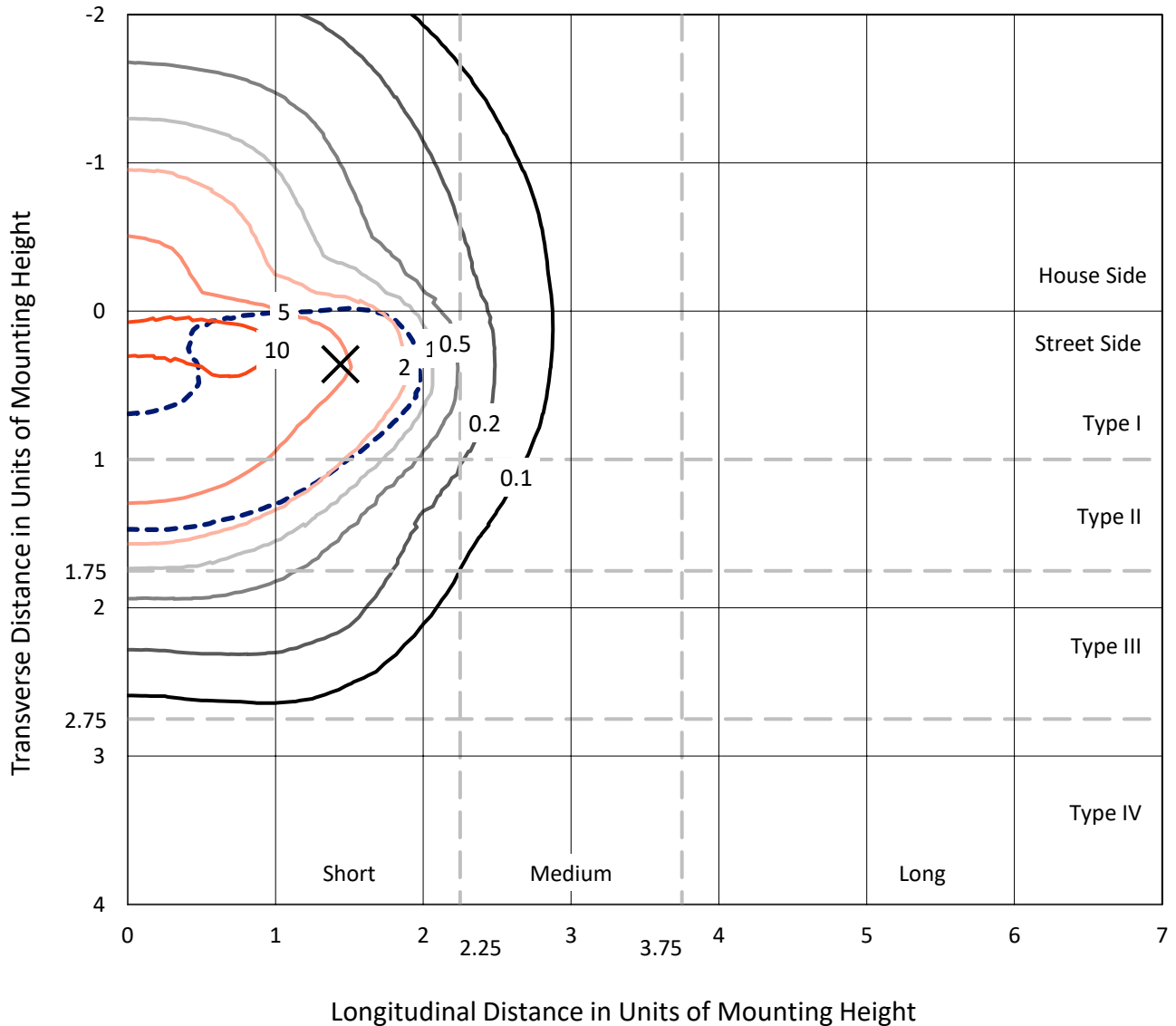
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530528
 CATALOG NUMBER: GALN-SA5D-730-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

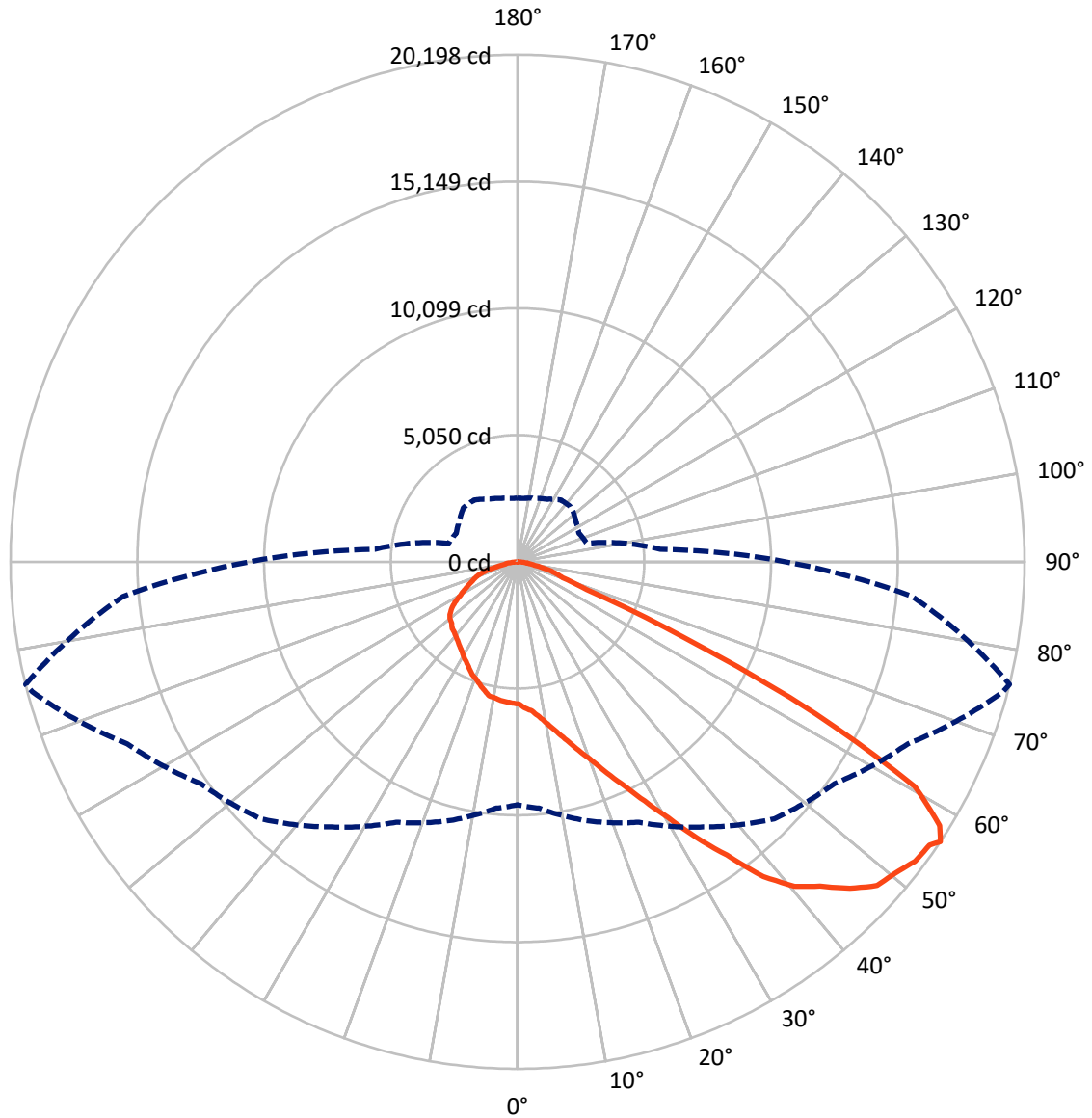
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

REPORT NUMBER: P530528
CATALOG NUMBER: GALN-SA5D-730-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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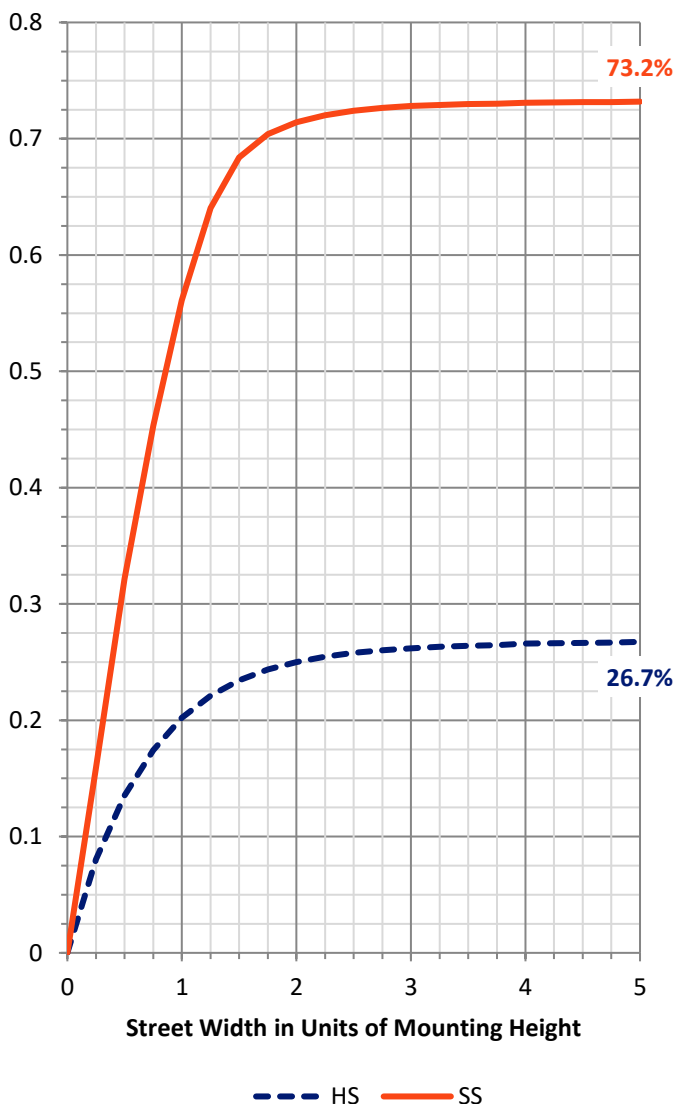
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7956.9	0.0	7956.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21637.1	0.0	21637.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	29594.0	0.0	29594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.5	1.9
10°-20°	1764.0	6.0
20°-30°	3085.0	10.4
30°-40°	4830.2	16.3
40°-50°	7026.5	23.7
50°-60°	7722.6	26.1
60°-70°	3447.0	11.6
70°-80°	995.6	3.4
80°-90°	161.5	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°	29594.0	100.0
0°-180°	29594.0	100.0

Coefficient of Utilization



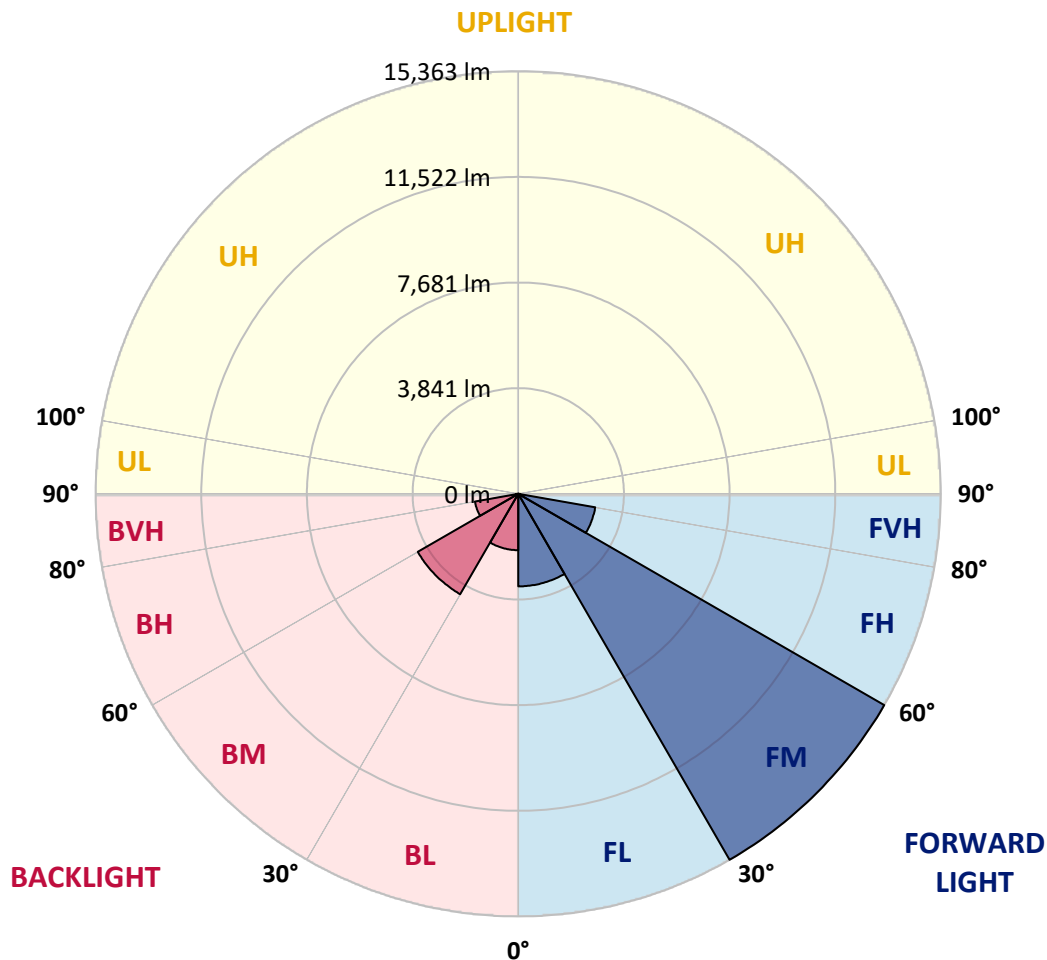
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 CATALOG NUMBER: GALN-SA5D-730-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3363.0	11.4			
FM (30°-60°)	15362.8	51.9			
FH (60°-80°)	2841.7	9.6			G2/5000
FVH (80°-90°)	69.5	0.2			G1/100
BL (0°-30°)	2047.5	6.9	B3/2500		
BM (30°-60°)	4216.5	14.2	B3/5000		
BH (60°-80°)	1601.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	92.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4
2.5°	6237.9	6138.1	6130.5	6103.6	6119.0	6049.9	5977.0	5881.1	5781.4	5842.7	5697.0
5°	6675.2	6541.0	6594.7	6502.6	6514.1	6422.0	6272.4	6161.2	6038.4	5965.5	5861.9
7.5°	6828.7	6840.2	6878.6	6863.2	6786.5	6786.5	6686.7	6491.1	6276.2	6234.0	6061.4
10°	7035.8	7039.7	6997.5	7009.0	7116.4	7066.5	6978.3	6893.9	6617.7	6567.8	6260.9
12.5°	7108.7	7039.7	7108.7	7170.1	7296.7	7365.8	7346.6	7285.2	6989.8	6955.3	6506.4
15°	7120.2	7078.0	7135.6	7273.7	7384.9	7676.5	7822.3	7780.1	7388.8	7392.6	6782.6
17.5°	7066.5	7124.1	7147.1	7266.0	7523.1	7795.4	8217.4	8275.0	7952.7	7902.9	7131.7
20°	7139.4	7097.2	7127.9	7235.3	7576.8	8002.6	8555.0	8934.8	8482.1	8447.6	7492.4
22.5°	7419.5	7361.9	7354.3	7423.3	7668.8	8110.0	8911.8	9594.7	9126.6	9145.8	7941.2
25°	7638.1	7668.8	7642.0	7638.1	7791.6	8271.1	9383.7	10381.1	10001.3	9890.1	8470.6
27.5°	8014.1	8087.0	8033.3	8106.2	8071.7	8512.8	9721.3	11252.0	10945.1	10795.4	8950.2
30°	8535.8	8574.2	8524.3	8524.3	8420.8	8850.4	10028.2	12161.2	12034.6	11831.3	9514.1
32.5°	9222.6	9280.1	9180.4	9122.8	9107.5	9353.0	10580.6	13058.9	13273.7	13101.1	10262.2
35°	10131.8	10097.2	9978.3	9924.6	9717.4	10124.1	11401.6	14090.9	14654.8	14347.9	11167.6
37.5°	10933.6	10879.8	10872.2	10572.9	10622.8	10956.6	12099.8	14873.5	15993.7	15905.4	12122.8
40°	11681.6	11731.5	11812.1	11643.3	11566.6	11934.8	12913.1	15471.9	17033.3	16998.8	12859.4
42.5°	12483.4	12437.4	12579.3	12437.4	12322.3	12844.1	13795.5	15886.3	17946.4	17662.5	13630.5
45°	13645.8	13500.1	13549.9	13561.4	13477.0	13668.9	14159.9	16185.5	18587.0	18556.4	14194.4
47.5°	14616.4	14620.3	14535.9	14470.7	14213.6	14405.4	14566.6	16373.5	19323.6	19273.8	14413.1
50°	14977.1	14927.2	15172.7	15314.7	15330.0	14938.7	14885.0	16477.1	19711.1	19492.4	14631.8
52.5°	13680.4	13726.4	14113.9	14957.9	15445.1	15487.3	15257.1	16691.9	19868.4	19822.3	14808.3
55°	11010.3	11232.8	11869.6	12844.1	13998.8	15268.6	15659.9	16914.4	19952.8	19914.4	15590.9
56°	9679.1	9851.7	10680.4	11443.8	12893.9	14474.5	15406.7	17152.3	20018.0	20198.3	15775.0
57.5°	7791.6	7991.1	8585.7	9452.7	11163.7	12963.0	14708.5	16860.7	19764.8	19833.9	15909.3
60°	4872.1	4891.3	5604.9	6176.5	7381.1	9138.2	11225.1	14670.1	18291.6	18191.9	14290.4
62.5°	3195.7	3199.5	3847.8	4315.9	4864.5	5267.3	6606.2	9728.9	13496.2	13319.8	10174.0
65°	2244.3	2294.1	2796.7	3422.0	3644.5	3433.5	3391.3	5129.2	7538.4	7285.2	5466.8
67.5°	1642.0	1645.8	2090.8	2762.2	3084.4	2612.5	2121.5	2505.1	2984.7	2977.0	2532.0
70°	1085.7	1131.7	1473.2	2063.9	2432.2	2098.5	1734.0	1791.6	1899.0	1899.0	1883.6
72.5°	633.0	675.2	901.5	1308.2	1365.7	1312.0	1373.4	1534.5	1603.6	1599.8	1580.6
75°	360.6	379.8	429.7	544.8	679.0	801.8	1009.0	1162.4	1231.5	1273.7	1223.8
77.5°	211.0	222.5	253.2	310.7	352.9	433.5	548.6	656.0	748.1	736.6	744.2
80°	111.3	111.3	141.9	184.1	245.5	306.9	364.5	425.8	475.7	487.2	498.7
82.5°	65.2	69.1	92.1	134.3	176.5	218.7	280.1	322.3	368.3	372.1	379.8
85°	34.5	38.4	57.5	88.2	118.9	134.3	138.1	130.4	141.9	134.3	153.5
87.5°	11.5	11.5	19.2	15.3	15.3	19.2	23.0	23.0	30.7	30.7	30.7
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°	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4	5662.4
2.5°	5693.1	5693.1	5627.9	5505.1	5486.0	5436.1	5390.1	5386.2	5351.7	5321.0	5305.7
5°	5800.5	5681.6	5585.7	5474.5	5344.0	5282.6	5213.6	5136.9	5106.2	5136.9	5133.0
7.5°	5923.3	5823.6	5535.8	5328.7	5179.1	5117.7	5040.9	4960.4	4968.1	4968.1	4914.3
10°	6042.2	5908.0	5447.6	5182.9	4964.2	4918.2	4876.0	4906.7	4945.0	4952.7	4918.2
12.5°	6241.7	5938.6	5405.4	5037.1	4899.0	4799.3	4826.1	4910.5	4991.1	4968.1	4994.9
15°	6391.3	5965.5	5213.6	4887.5	4714.9	4760.9	4856.8	4914.3	5048.6	5033.3	5060.1
17.5°	6537.1	5980.8	5025.6	4688.0	4615.1	4741.7	4814.6	4979.6	5021.8	5113.8	5148.4
20°	6836.4	6011.5	4833.8	4565.2	4542.2	4688.0	4814.6	4891.3	4983.4	5064.0	5064.0
22.5°	6989.8	5996.2	4707.2	4404.1	4477.0	4569.1	4684.2	4814.6	4814.6	4891.3	4895.2
25°	7181.6	5934.8	4507.7	4327.4	4381.1	4469.3	4599.8	4553.7	4603.6	4603.6	4665.0
27.5°	7400.3	5804.4	4335.1	4189.3	4296.7	4392.6	4411.8	4381.1	4323.6	4315.9	4292.9
30°	7576.8	5643.3	4208.5	4143.2	4231.5	4285.2	4223.8	4158.6	4058.8	4051.2	3997.5
32.5°	7818.5	5443.8	4051.2	4028.2	4127.9	4131.7	4112.6	4012.8	3867.0	3805.6	3744.3
35°	8225.1	5328.7	3932.2	3966.8	3997.5	3986.0	3951.4	3844.0	3698.2	3671.4	3648.4
37.5°	8524.3	5244.3	3809.5	3851.7	3878.5	3893.9	3790.3	3671.4	3675.2	3621.5	3606.2
40°	8861.9	5190.6	3709.7	3728.9	3732.8	3782.6	3656.0	3598.5	3625.3	3590.8	3613.8
42.5°	9295.4	5205.9	3606.2	3590.8	3663.7	3644.5	3583.1	3506.4	3521.8	3418.2	3433.5
45°	9525.6	5309.5	3544.8	3475.7	3556.3	3552.4	3471.9	3399.0	3306.9	3107.4	3115.1
47.5°	9679.1	5336.3	3399.0	3353.0	3437.4	3487.2	3395.2	3226.4	3095.9	2954.0	2919.5
50°	9836.4	5386.2	3329.9	3234.0	3268.6	3387.5	3272.4	3111.3	2984.7	2858.1	2877.3
52.5°	9974.5	5482.1	3195.7	3053.7	3115.1	3245.5	3184.2	2988.5	2850.4	2746.8	2716.1
55°	10588.3	5697.0	2969.3	2785.2	2931.0	3095.9	3061.4	2823.5	2673.9	2620.2	2612.5
56°	10684.2	5704.6	2850.4	2693.1	2827.4	3046.1	3003.9	2750.7	2616.4	2532.0	2535.8
57.5°	10699.5	5612.6	2681.6	2608.7	2723.8	2973.2	2919.5	2693.1	2509.0	2432.2	2409.2
60°	9414.4	4381.1	2470.6	2424.6	2558.8	2750.7	2731.5	2535.8	2328.7	2240.4	2282.6
62.5°	6418.2	3211.0	2305.6	2298.0	2367.0	2555.0	2505.1	2328.7	2156.0	2098.5	2071.6
65°	3736.6	2436.1	2144.5	2113.8	2171.4	2271.1	2305.6	2121.5	1941.2	1902.8	1891.3
67.5°	2205.9	2014.1	1937.3	1887.5	1868.3	1929.7	1956.5	1849.1	1668.8	1615.1	1661.1
70°	1845.3	1791.6	1795.4	1711.0	1665.0	1622.8	1599.8	1503.8	1354.2	1285.2	1266.0
72.5°	1592.1	1569.1	1553.7	1477.0	1434.8	1338.9	1239.1	1143.2	1032.0	974.4	978.3
75°	1216.1	1208.4	1216.1	1177.8	1104.9	1028.1	936.1	813.3	728.9	656.0	671.4
77.5°	725.1	748.1	759.6	744.2	713.6	644.5	587.0	506.4	425.8	368.3	360.6
80°	498.7	517.9	537.1	517.9	487.2	437.3	376.0	314.6	257.0	226.3	218.7
82.5°	379.8	399.0	410.5	391.3	352.9	299.2	257.0	214.8	168.8	138.1	130.4
85°	138.1	157.3	153.5	184.1	199.5	191.8	165.0	126.6	95.9	69.1	65.2
87.5°	38.4	34.5	38.4	38.4	38.4	34.5	30.7	30.7	30.7	19.2	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)