

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: P459491

Luminaire Tested: **GALN-SA9B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35280 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

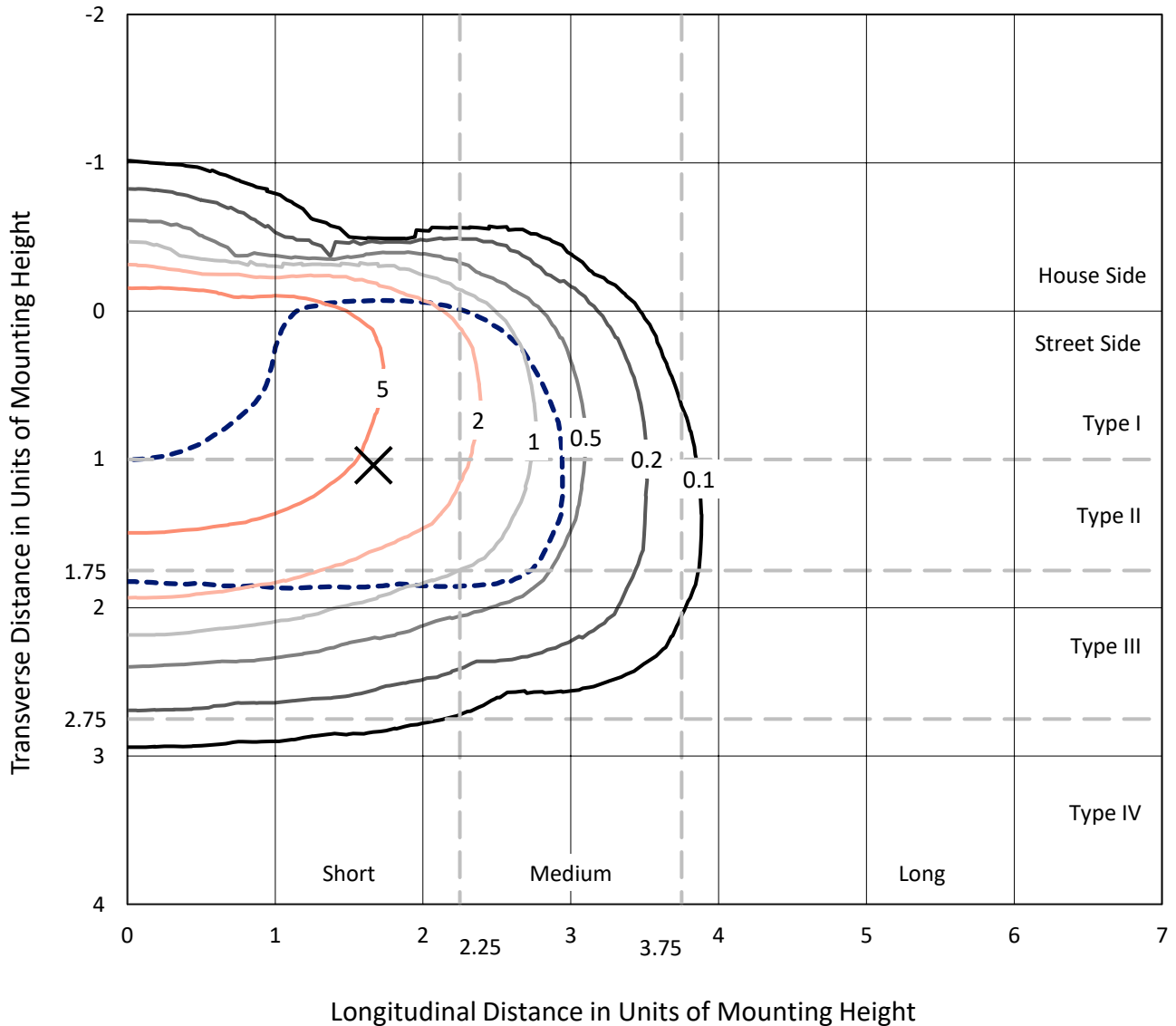
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

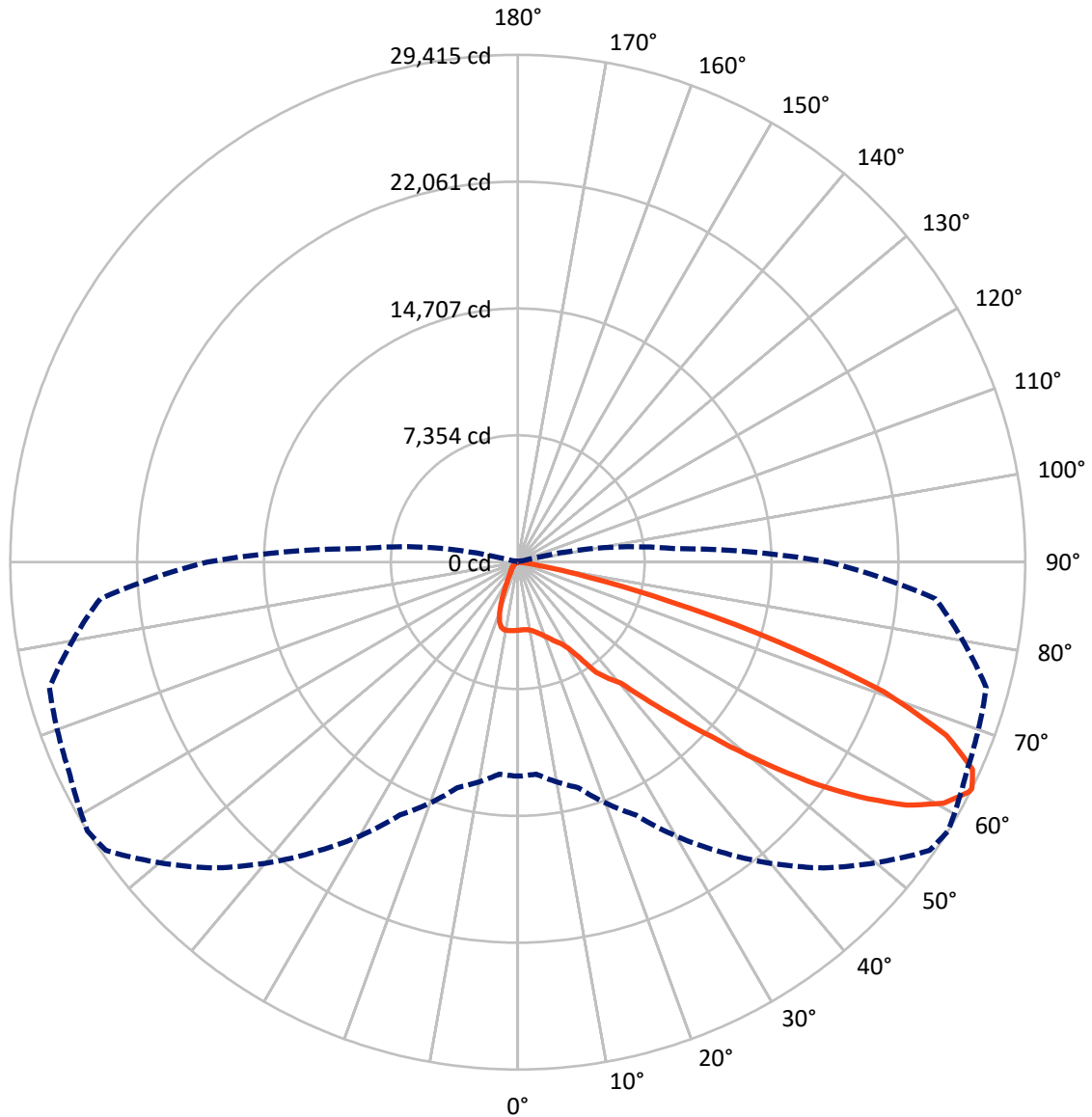
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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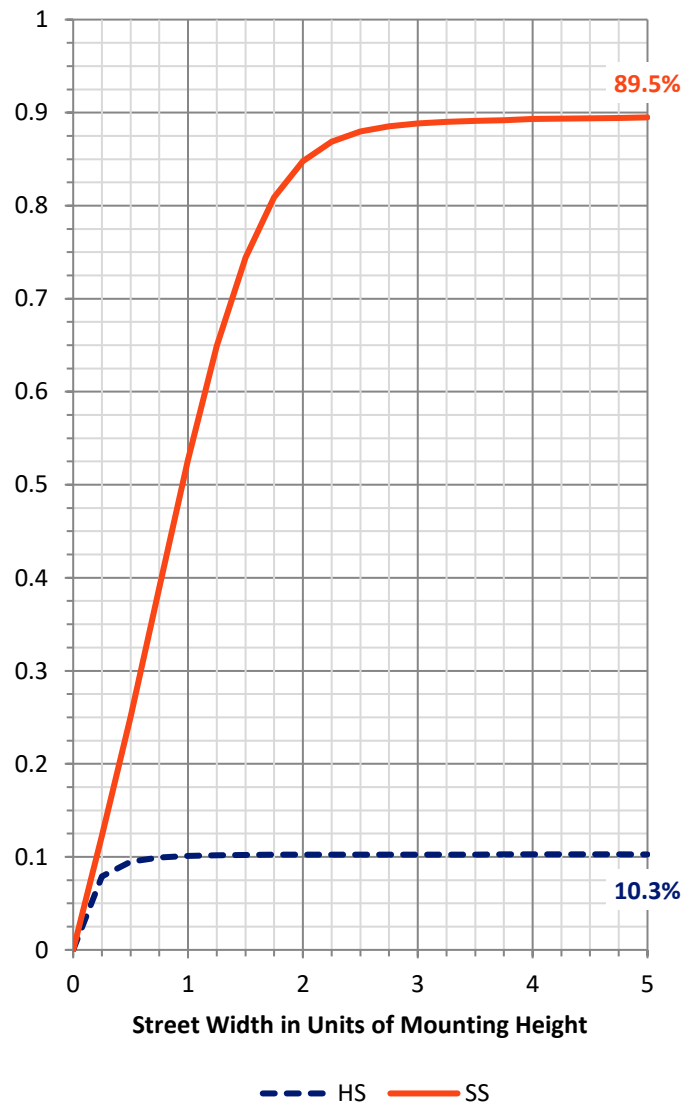
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3653.0	0.0	3653.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31627.0	0.0	31627.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	35280.0	0.0	35280.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	1.0
10°-20°	1007.1	2.9
20°-30°	1747.8	5.0
30°-40°	3211.8	9.1
40°-50°	6046.1	17.1
50°-60°	10341.4	29.3
60°-70°	9901.9	28.1
70°-80°	2525.0	7.2
80°-90°	129.1	0.4
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°	35280.0	100.0
0°-180°	35280.0	100.0



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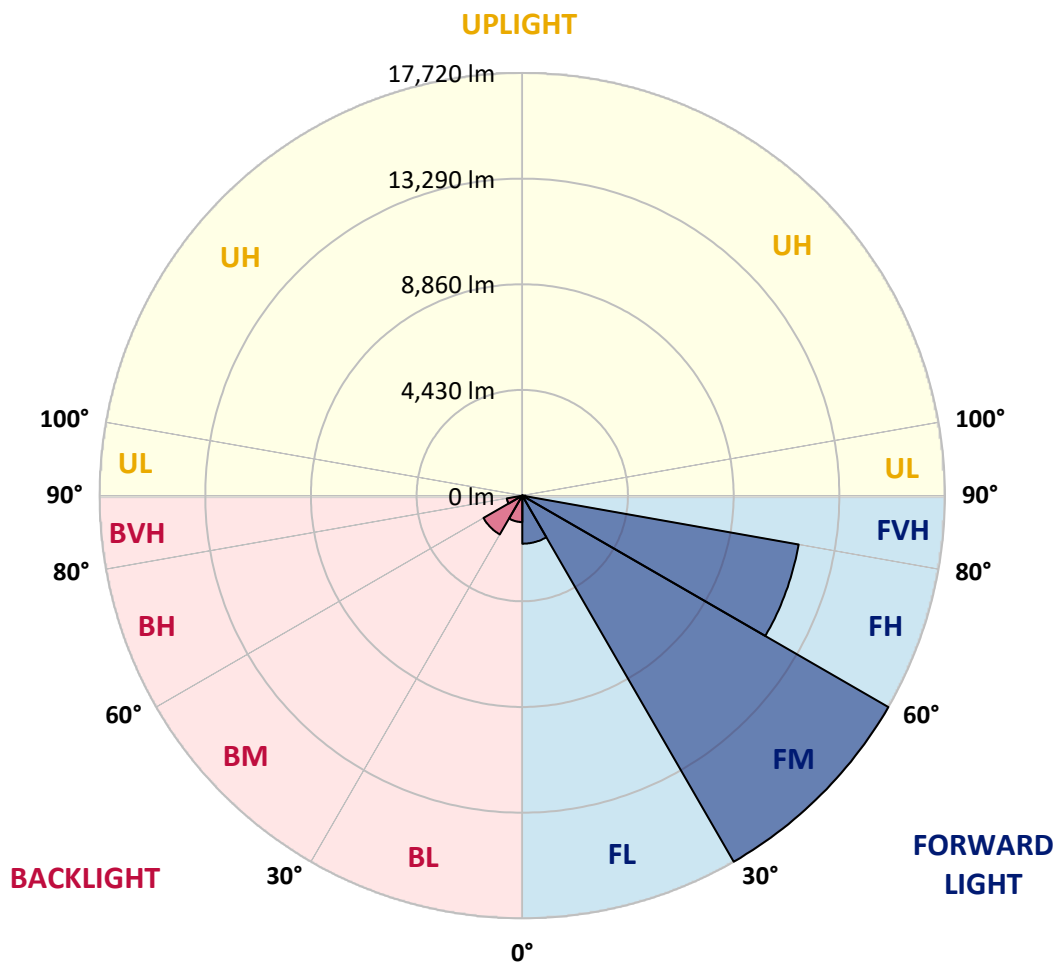
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2016.8	5.7			
FM	(30°-60°)	17720.4	50.2			
FH	(60°-80°)	11765.7	33.3			G4/12000
FVH	(80°-90°)	124.1	0.4			G2/225
BL	(0°-30°)	1107.9	3.1	B3/2500		
BM	(30°-60°)	1878.9	5.3	B2/2500		
BH	(60°-80°)	661.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7
2.5°	3851.5	3864.7	3878.0	3883.3	3901.9	3920.5	3933.8	3931.1	3952.4	3963.0	3963.0
5°	3697.4	3697.4	3731.9	3763.8	3816.9	3870.0	3920.5	3931.1	3971.0	4008.2	4021.4
7.5°	3567.2	3575.2	3601.8	3660.2	3731.9	3824.9	3925.8	3949.7	4018.8	4101.1	4135.7
10°	3506.2	3511.5	3546.0	3607.1	3697.4	3824.9	3965.7	4010.8	4117.1	4247.2	4295.0
12.5°	3492.9	3500.8	3535.4	3604.4	3708.0	3862.1	4053.3	4101.1	4255.2	4422.5	4494.2
15°	3516.8	3522.1	3556.6	3631.0	3745.2	3928.5	4170.2	4236.6	4419.9	4613.8	4706.7
17.5°	3601.8	3596.5	3620.4	3681.5	3809.0	4010.8	4311.0	4390.7	4605.8	4871.4	4932.5
20°	3963.0	3928.5	3907.2	3854.1	3904.6	4127.7	4481.0	4597.8	4863.5	5134.4	5176.9
22.5°	4741.3	4664.2	4512.8	4305.7	4146.3	4287.1	4685.5	4821.0	5163.6	5429.2	5429.2
25°	5732.0	5633.7	5482.3	5030.8	4640.3	4550.0	4916.6	5086.6	5490.3	5758.6	5670.9
27.5°	6972.5	6895.4	6600.6	6074.7	5477.0	5009.5	5184.9	5341.6	5779.8	6103.9	5920.6
30°	7981.8	7944.6	7702.9	7232.8	6574.0	5891.4	5684.2	5787.8	6165.0	6539.5	6350.9
32.5°	8834.4	8834.4	8587.4	8149.1	7532.9	6927.3	6531.5	6605.9	6967.1	7400.1	7049.5
35°	9772.1	9740.2	9541.0	9124.0	8433.4	7899.5	7737.4	7838.4	8165.1	8486.5	7623.2
37.5°	10757.5	10746.9	10539.7	10136.0	9572.9	8900.8	8521.0	8547.6	8714.9	8911.5	8295.2
40°	11827.9	11843.9	11573.0	11323.3	10792.0	10104.1	9376.3	9209.0	9365.7	9920.8	9535.7
42.5°	13092.3	13055.1	12938.2	12598.2	12170.6	11758.9	10885.0	10823.9	10962.0	11557.0	11140.0
45°	14561.2	14614.3	14412.4	14223.8	13937.0	13594.3	12863.9	12757.6	12909.0	13833.4	13241.0
47.5°	16032.7	15982.2	16112.4	16077.8	16231.9	15976.9	15331.4	15113.6	15477.5	16354.1	15482.8
50°	17153.6	17209.4	17480.3	17876.1	18537.4	18680.9	18062.0	17987.6	18149.6	18712.8	17488.3
52.5°	17881.4	18067.3	18492.3	19509.6	20702.2	21629.2	21159.1	21119.2	21052.8	21204.2	19406.0
55°	18356.8	18545.4	19100.6	20598.6	22651.9	24157.9	24181.8	24011.8	23573.6	23464.7	21198.9
57.5°	18064.6	18101.8	18893.4	20896.1	23732.9	25961.5	26742.4	26572.4	25762.2	25350.5	22782.0
60°	16237.2	16314.2	17416.5	19769.9	23262.8	26551.1	28439.7	28362.6	27475.5	27010.6	24014.5
62.5°	12999.3	13222.4	14356.6	16980.9	21076.7	25557.7	29127.6	29345.4	28654.8	28014.7	24402.3
63°	12404.3	12332.6	13530.6	16168.1	20497.7	25066.3	29138.2	29414.5	28707.9	28110.3	24296.0
65°	9182.4	9397.5	10175.8	12749.6	17058.0	22779.4	28482.2	28970.9	28511.4	27688.0	23119.3
67.5°	5155.6	5145.0	6005.6	8343.0	11939.5	17868.1	25754.3	26787.5	26691.9	24845.9	19164.3
70°	2523.4	2563.2	2916.5	4324.3	6924.6	12327.3	21400.8	22516.4	22550.9	19514.9	13251.7
72.5°	1142.2	1160.7	1413.1	2106.3	3559.3	6563.4	14747.1	15812.2	15615.7	12436.2	7317.8
75°	603.0	642.8	778.3	1059.8	1715.9	2706.6	8021.6	9052.2	8640.5	5681.6	2693.4
77.5°	446.2	459.5	528.6	674.7	919.0	1054.5	3461.0	4117.1	3856.8	2055.9	892.5
80°	326.7	337.3	393.1	478.1	579.0	536.5	1304.2	1495.4	1341.4	698.6	273.6
82.5°	199.2	201.9	286.9	355.9	363.9	300.1	430.3	462.2	483.4	393.1	148.7
85°	71.7	90.3	193.9	257.6	215.2	151.4	180.6	199.2	217.8	249.7	87.7
87.5°	8.0	10.6	93.0	124.8	61.1	55.8	66.4	74.4	79.7	93.0	42.5
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°	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7	3949.7
2.5°	3973.6	3984.3	3976.3	3963.0	3960.4	3952.4	3936.5	3936.5	3936.5	3941.8	3936.5
5°	4032.1	4040.0	4021.4	3994.9	3965.7	3928.5	3888.6	3864.7	3862.1	3856.8	3843.5
7.5°	4143.6	4154.3	4111.8	4048.0	3968.3	3878.0	3793.0	3713.3	3676.1	3646.9	3646.9
10°	4305.7	4316.3	4231.3	4117.1	3957.7	3774.4	3572.6	3389.3	3245.8	3179.4	3163.5
12.5°	4499.6	4504.9	4364.1	4164.9	3901.9	3548.7	3118.3	2717.3	2438.4	2310.9	2297.6
15°	4712.1	4674.9	4488.9	4183.5	3742.6	3083.8	2340.1	1848.7	1559.2	1474.2	1506.1
17.5°	4927.2	4858.1	4584.6	4154.3	3384.0	2340.1	1572.5	1261.7	1171.4	1147.5	1147.5
20°	5129.1	5033.5	4653.6	4026.8	2762.4	1612.3	1166.1	1091.7	1075.8	1059.8	1062.5
22.5°	5330.9	5184.9	4714.7	3742.6	2058.5	1152.8	1043.9	1020.0	998.7	977.5	974.8
25°	5527.5	5325.6	4738.6	3216.6	1402.5	990.8	953.6	921.7	879.2	855.3	850.0
27.5°	5732.0	5495.6	4722.7	2552.6	1022.6	887.2	850.0	804.8	754.4	711.9	711.9
30°	6125.1	5819.7	4666.9	1835.4	860.6	780.9	733.1	661.4	605.6	563.1	560.5
32.5°	6661.7	6242.0	4475.7	1290.9	765.0	687.9	616.2	536.5	478.1	446.2	446.2
35°	7139.8	6667.0	4117.1	950.9	687.9	597.6	510.0	433.0	387.8	366.6	358.6
37.5°	7867.6	7288.5	3623.0	772.9	613.6	518.0	427.6	355.9	318.7	302.8	302.8
40°	8959.3	8048.2	3017.4	677.3	541.9	440.9	355.9	300.1	270.9	252.3	252.3
42.5°	10313.9	8977.9	2403.8	608.3	475.5	379.8	297.5	255.0	228.4	215.2	212.5
45°	12019.2	9958.0	1851.4	544.5	422.3	324.1	252.3	215.2	188.6	180.6	183.3
47.5°	13798.8	10821.3	1434.3	488.7	366.6	273.6	215.2	185.9	167.3	156.7	156.7
50°	15318.2	11416.2	1089.0	425.0	324.1	231.1	188.6	167.3	151.4	146.1	143.4
52.5°	16587.8	11588.9	834.0	369.2	284.2	199.2	167.3	151.4	138.1	130.2	130.2
55°	17668.9	11437.5	653.4	310.8	239.1	172.7	148.7	135.5	119.5	111.6	108.9
57.5°	18301.0	10951.4	499.4	257.6	193.9	143.4	130.2	114.2	95.6	82.3	82.3
60°	18619.8	10244.9	382.5	212.5	148.7	114.2	106.2	85.0	66.4	55.8	53.1
62.5°	18237.3	9307.2	289.5	167.3	111.6	85.0	71.7	61.1	42.5	31.9	31.9
63°	18000.9	9036.3	278.9	159.4	103.6	79.7	66.4	55.8	37.2	29.2	26.6
65°	16409.9	7854.3	228.4	127.5	82.3	55.8	45.2	39.8	26.6	13.3	10.6
67.5°	13031.2	6008.3	180.6	95.6	58.4	39.8	26.6	23.9	8.0	0.0	0.0
70°	8810.5	3880.7	140.8	69.1	39.8	23.9	13.3	10.6	2.7	0.0	0.0
72.5°	4595.2	1989.5	108.9	50.5	23.9	15.9	8.0	2.7	0.0	0.0	0.0
75°	1625.6	677.3	79.7	31.9	15.9	8.0	2.7	0.0	0.0	0.0	0.0
77.5°	491.4	252.3	50.5	23.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0
80°	172.7	93.0	29.2	15.9	8.0	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	85.0	45.2	18.6	13.3	8.0	2.7	0.0	0.0	0.0	0.0	0.0
85°	47.8	29.2	15.9	13.3	8.0	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	34.5	21.2	15.9	13.3	10.6	5.3	2.7	0.0	0.0	0.0	0.0
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)