

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: P382672

Luminaire Tested: **GLEON-SA0C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52640.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

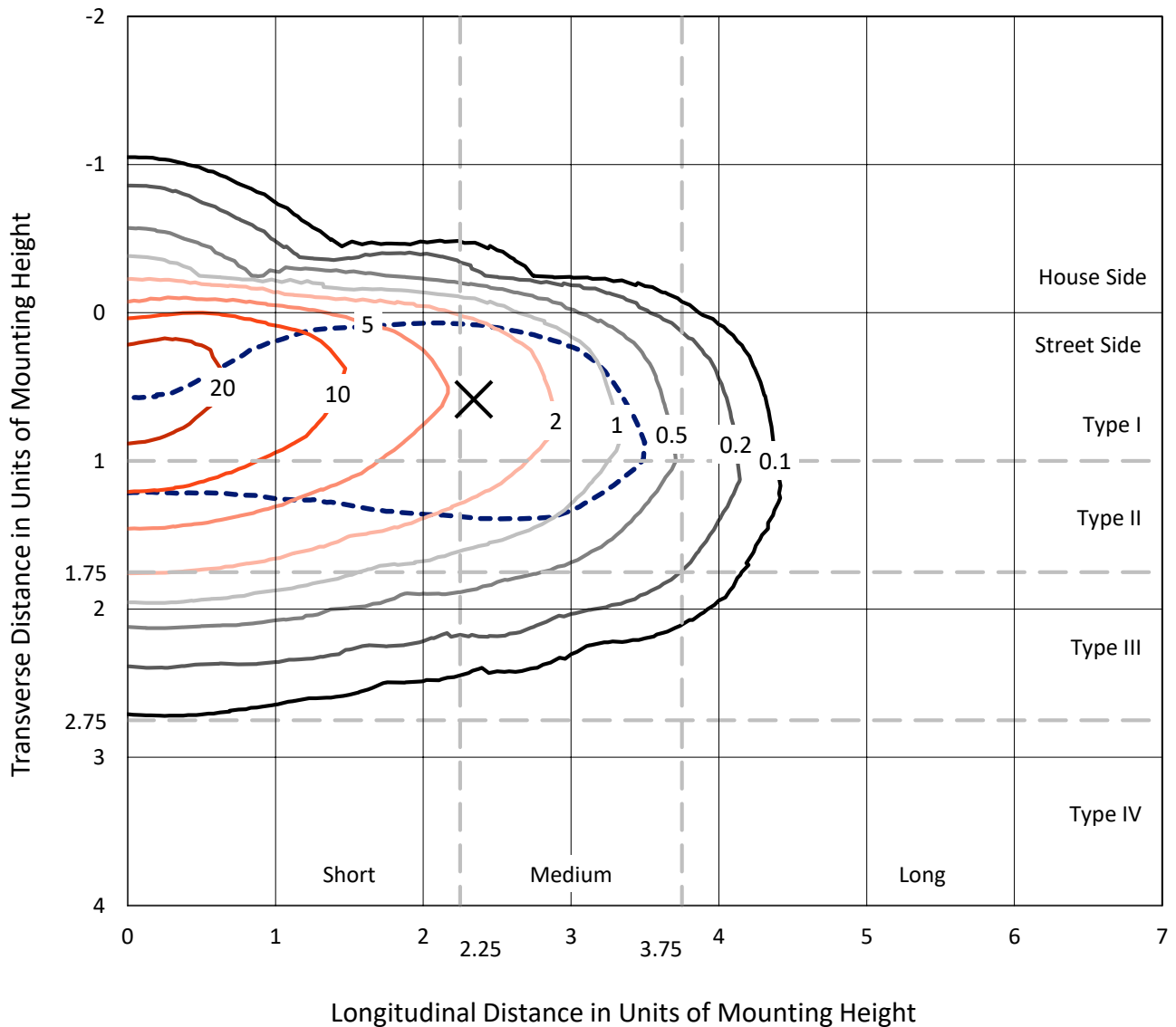
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382672
 CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

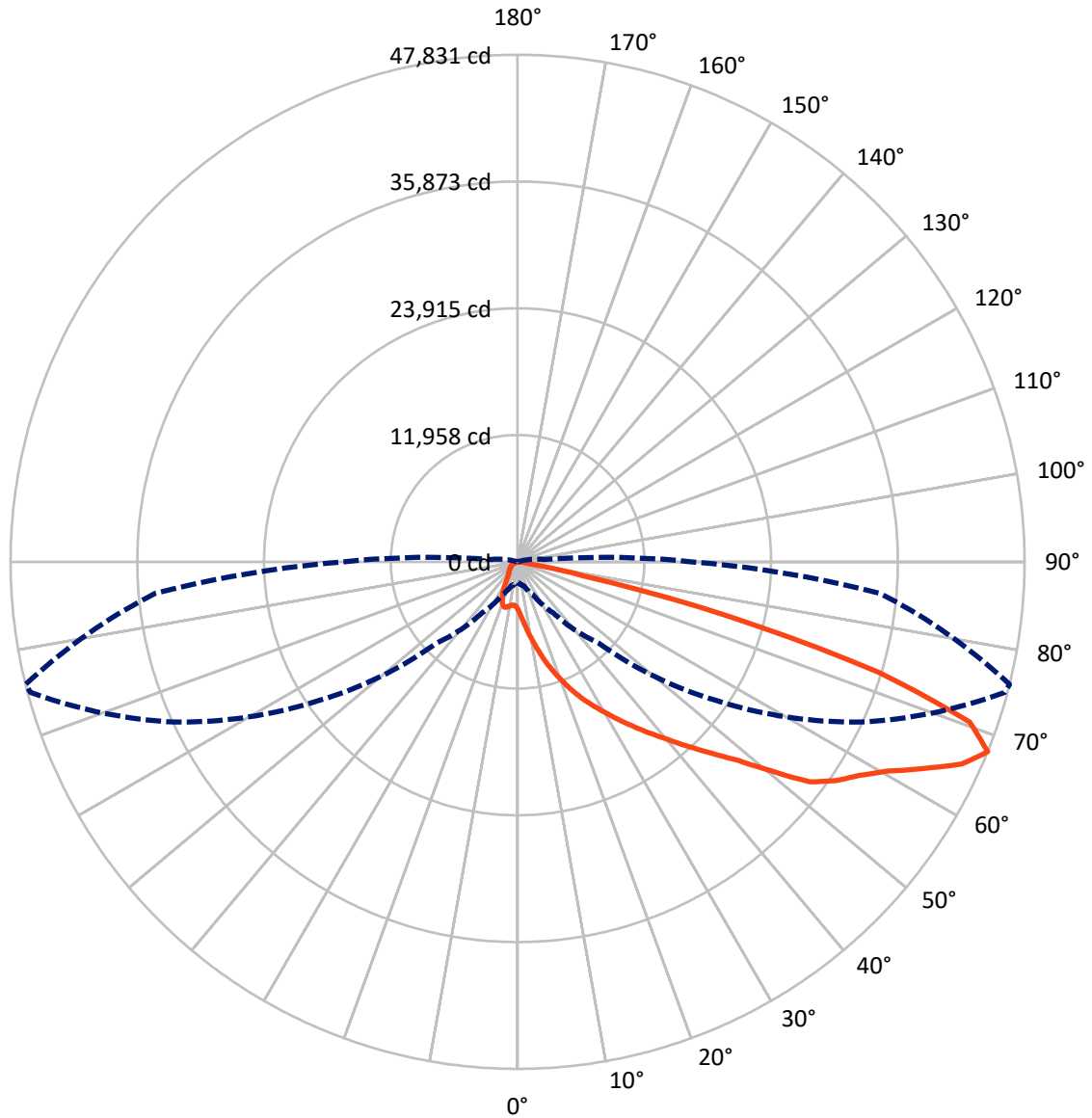
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P382672
CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

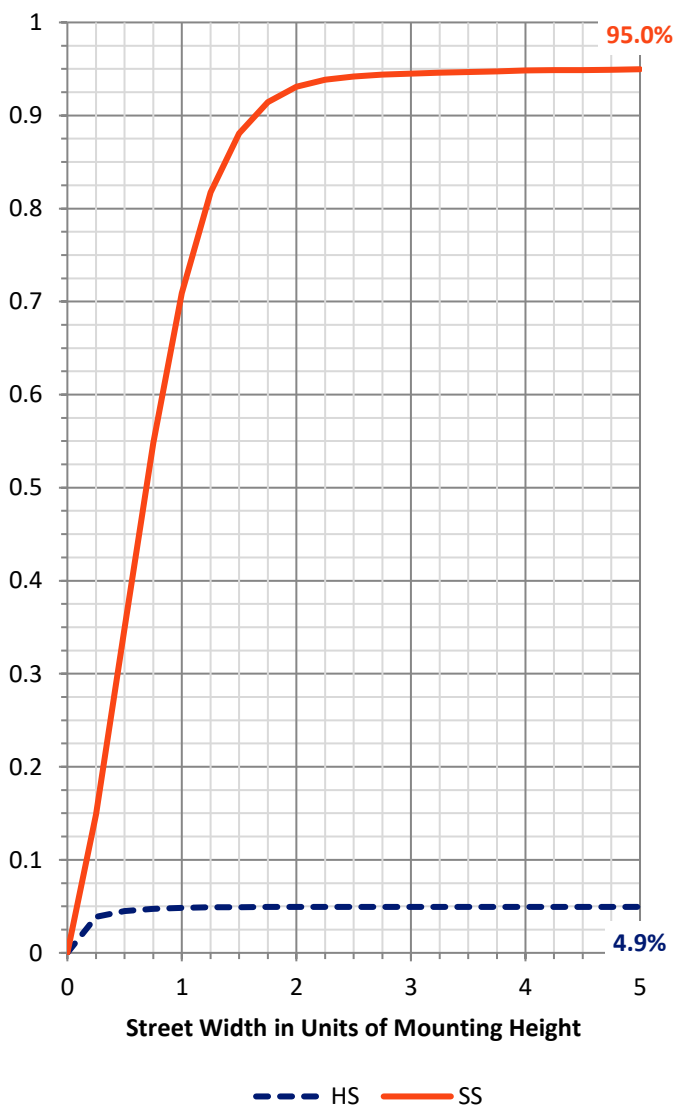
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.0	0.0	2614.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	50026.8	0.0	50026.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	52640.8	0.0	52640.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.3	1.1
10°-20°	2201.2	4.2
20°-30°	4478.7	8.5
30°-40°	7773.5	14.8
40°-50°	10983.0	20.9
50°-60°	12455.3	23.7
60°-70°	10330.5	19.6
70°-80°	3742.0	7.1
80°-90°	121.3	0.2
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°	52640.8	100.0
0°-180°	52640.8	100.0

Coefficient of Utilization

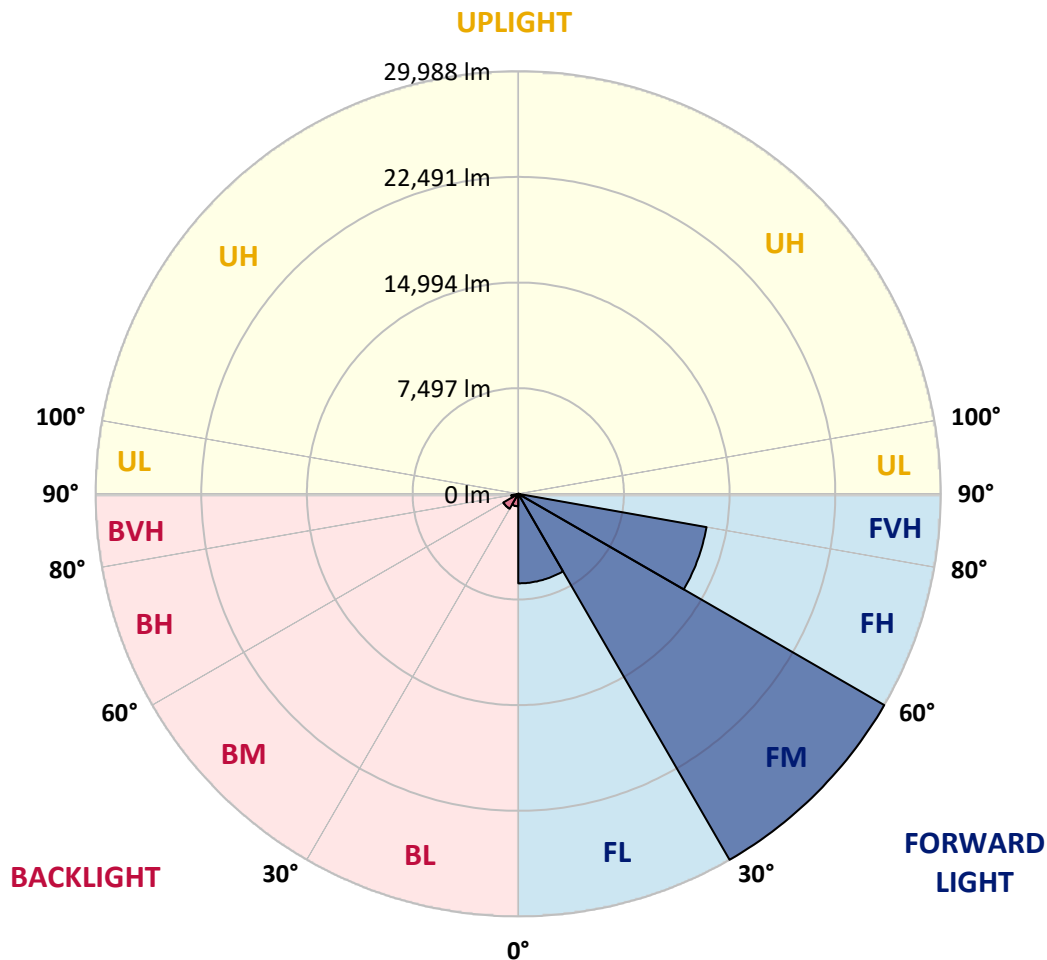


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 CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6353.6	12.1			
FM (30°-60°)	29988.4	57.0			
FH (60°-80°)	13567.3	25.8			G5
FVH (80°-90°)	117.5	0.2			G2/225
BL (0°-30°)	881.6	1.7	B2/1000		
BM (30°-60°)	1223.4	2.3	B2/2500		
BH (60°-80°)	505.2	1.0	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





REPORT NUMBER: P382672

CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5
2.5°	6665.9	6516.0	6550.5	6453.7	6278.4	5918.6	5611.8	5321.2	4982.1	4970.6	4691.6
5°	8988.6	8861.7	8845.6	8649.5	8331.2	7720.0	7124.9	6446.8	5690.3	5634.8	5042.1
7.5°	11096.8	10995.2	10958.4	10725.5	10132.6	9537.6	8762.5	7766.1	6582.9	6481.4	5514.9
10°	12716.0	12667.6	12676.8	12510.7	12003.3	11449.7	10432.5	9161.6	7595.5	7438.6	6082.4
12.5°	13943.0	13954.6	14037.6	13936.1	13652.4	13241.9	12155.5	10649.3	8716.4	8502.0	6730.5
15°	14844.9	14902.5	15054.8	15181.6	15160.9	14805.7	13809.3	12160.0	9906.6	9669.0	7452.5
17.5°	15428.5	15493.0	15714.5	15995.9	16254.2	16171.2	15405.4	13617.8	11110.7	10836.1	8225.1
20°	15940.5	16016.7	16254.2	16625.5	17107.6	17211.5	16708.6	15031.7	12312.4	11977.8	9023.2
22.5°	17049.9	17047.7	17192.9	17409.8	17868.8	18136.3	17818.1	16344.2	13500.2	13151.9	9837.4
25°	19056.7	18980.6	18929.8	18759.1	18860.6	19026.7	18849.0	17571.2	14695.0	14342.1	10663.1
27.5°	21441.6	21487.7	21077.2	20618.2	20262.9	20092.3	19801.6	18708.4	15843.7	15456.1	11470.4
30°	23958.1	23971.9	23487.5	22901.6	22119.8	21471.6	20968.8	19794.7	17024.6	16602.5	12254.7
32.5°	26227.7	26137.7	25658.0	24859.9	23872.7	23143.8	22099.0	21008.0	18274.7	17866.5	13126.5
35°	28026.8	27920.7	27337.1	26610.6	25586.4	24853.0	23595.9	22218.9	19589.4	19190.4	14000.7
37.5°	29341.5	29217.0	28617.2	27869.9	26986.6	26559.8	25332.8	23535.9	21024.1	20595.1	14921.1
40°	29798.3	29689.8	29313.8	28767.2	28056.8	27959.9	27175.7	25051.4	22585.7	22129.0	15963.6
42.5°	29526.1	29419.9	29286.2	29101.6	28806.4	28898.7	28914.8	26778.9	24320.2	23870.4	17114.6
45°	28446.6	28352.0	28490.5	28760.3	29127.0	29583.7	30501.8	28635.7	26257.7	25777.9	18445.4
47.5°	26857.4	26788.1	27171.1	27844.6	28917.1	30176.5	31952.5	30587.1	28432.8	27987.6	20106.2
50°	24597.0	24585.4	25351.2	26580.6	28229.8	30462.5	33451.8	32805.9	31454.4	30986.1	22415.0
52.5°	21077.2	21100.2	22606.4	24573.9	27023.5	30268.8	34415.9	35656.8	34969.5	34482.8	24414.7
55°	17725.8	17864.2	18932.1	21769.1	25173.6	29549.2	34748.0	36987.7	36909.3	36448.0	25526.5
57.5°	14443.6	14695.0	15723.7	18373.9	22472.7	27890.7	34565.8	37564.4	38353.2	38000.2	26993.5
60°	10886.9	11002.2	12187.8	14665.0	19005.9	24864.5	33244.2	37878.0	40327.6	40083.1	29122.4
62.5°	6926.5	7214.8	8266.6	10656.3	14798.8	20662.0	31016.1	37873.5	42797.9	42931.7	31869.5
65°	3649.0	3985.7	4543.9	6603.6	10169.5	15968.2	27664.6	37518.3	45828.7	46015.6	34016.9
67.5°	1967.5	2064.3	2359.6	3427.5	5897.8	10817.7	22740.2	35765.3	47584.0	47830.8	34316.7
70°	1439.2	1492.3	1603.0	1896.0	2968.6	6283.0	16593.3	31791.1	45321.3	45229.0	30490.2
72.5°	1104.8	1187.9	1270.9	1388.6	1706.9	3353.8	10331.0	24894.5	36161.9	35553.1	22791.0
75°	871.8	885.7	1003.4	1109.5	1280.1	1909.9	4587.7	14498.9	22071.3	20629.7	11818.7
77.5°	696.6	705.8	775.0	867.3	1028.7	1254.8	1420.8	5704.1	7046.5	6287.7	2564.8
80°	412.9	436.0	576.6	668.9	853.4	791.2	519.0	1238.6	1100.3	996.4	431.3
82.5°	230.7	249.1	325.2	528.2	595.1	378.3	258.3	334.4	258.3	251.4	122.2
85°	0.0	11.6	209.9	327.5	242.2	83.0	108.4	110.7	76.1	71.5	48.4
87.5°	0.0	0.0	64.6	62.3	9.2	13.9	25.3	36.9	30.0	30.0	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382672

CATALOG NUMBER: GLEON-SA0C-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5	4465.5
2.5°	4553.1	4428.6	4193.3	3962.6	3768.9	3609.7	3466.8	3409.1	3363.0	3356.0	3319.1
5°	4756.1	4504.7	4054.9	3685.9	3439.1	3263.8	3113.8	3021.6	2950.0	2922.4	2897.0
7.5°	5062.9	4682.2	4036.5	3612.1	3316.8	3021.6	2744.8	2444.9	2258.1	2186.6	2145.1
10°	5436.5	4917.5	4105.6	3591.3	3074.7	2451.8	1992.9	1612.2	1457.8	1407.0	1393.1
12.5°	5872.5	5210.5	4225.6	3462.1	2557.9	1741.4	1374.7	1245.6	1210.9	1194.8	1194.8
15°	6373.0	5531.1	4310.9	3088.5	1891.3	1317.0	1190.1	1130.2	1093.3	1072.6	1074.8
17.5°	6885.1	5844.8	4269.4	2546.4	1395.5	1171.7	1077.1	1012.6	961.8	941.0	936.5
20°	7401.7	6135.4	4038.7	1896.0	1180.9	1063.4	957.3	885.7	834.9	814.2	809.6
22.5°	7936.8	6382.2	3632.8	1390.8	1061.0	943.4	839.6	768.1	719.6	701.2	692.0
25°	8458.1	6582.9	3065.4	1125.6	947.9	830.4	731.2	664.3	620.5	602.0	599.7
27.5°	8944.8	6709.8	2408.1	994.1	848.8	728.8	638.9	579.0	542.1	528.2	525.9
30°	9383.0	6721.3	1780.7	897.3	761.2	641.2	558.2	505.2	472.9	459.0	454.4
32.5°	9825.9	6624.4	1296.2	809.6	680.4	565.1	484.4	442.9	419.8	408.3	408.3
35°	10243.4	6400.7	1010.3	733.5	602.0	491.3	426.7	396.7	382.9	371.3	371.3
37.5°	10651.6	6080.0	858.0	666.6	528.2	429.0	376.0	357.5	346.0	334.4	334.4
40°	11066.8	5676.4	779.6	604.3	468.2	380.5	334.4	318.3	306.8	297.5	295.2
42.5°	11576.5	5210.5	728.8	546.6	415.2	336.8	295.2	276.8	267.5	258.3	253.8
45°	12167.0	4809.1	687.4	489.0	371.3	299.9	256.0	237.5	223.8	212.2	209.9
47.5°	13018.1	4518.5	632.0	426.7	329.9	260.6	221.4	200.7	179.9	168.4	166.1
50°	14104.5	4278.6	560.5	371.3	288.3	221.4	184.5	159.1	140.7	129.2	129.2
52.5°	14644.2	3964.9	495.9	322.9	242.2	186.9	149.9	120.0	110.7	99.2	99.2
55°	14861.1	3725.1	431.3	274.4	200.7	154.5	117.7	92.2	85.3	78.4	76.1
57.5°	15470.0	3655.9	376.0	233.0	166.1	122.2	90.0	69.2	64.6	55.3	55.3
60°	16450.3	3690.5	325.2	198.3	133.8	94.6	66.9	53.0	48.4	39.2	39.2
62.5°	17509.0	3646.6	274.4	170.7	103.8	69.2	46.1	39.2	39.2	23.1	20.8
65°	17712.0	3247.7	235.3	140.7	80.8	50.8	30.0	25.3	34.6	4.7	0.0
67.5°	16438.7	2518.7	203.0	108.4	60.0	39.2	23.1	11.6	30.0	0.0	0.0
70°	13145.0	1600.8	163.8	78.4	46.1	32.3	18.4	4.7	23.1	0.0	0.0
72.5°	9295.4	929.5	129.2	55.3	39.2	25.3	13.9	0.0	13.9	0.0	0.0
75°	4700.8	495.9	80.8	41.5	30.0	18.4	9.2	0.0	2.3	0.0	0.0
77.5°	1017.2	230.7	50.8	30.0	20.8	11.6	4.7	0.0	0.0	0.0	0.0
80°	221.4	101.4	32.3	18.4	11.6	6.9	0.0	0.0	0.0	0.0	0.0
82.5°	80.8	53.0	16.1	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.8	27.7	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	9.2	2.3	2.3	0.0	0.0	0.0	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)