

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: P459415

Luminaire Tested: **GALN-SA8D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47677 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

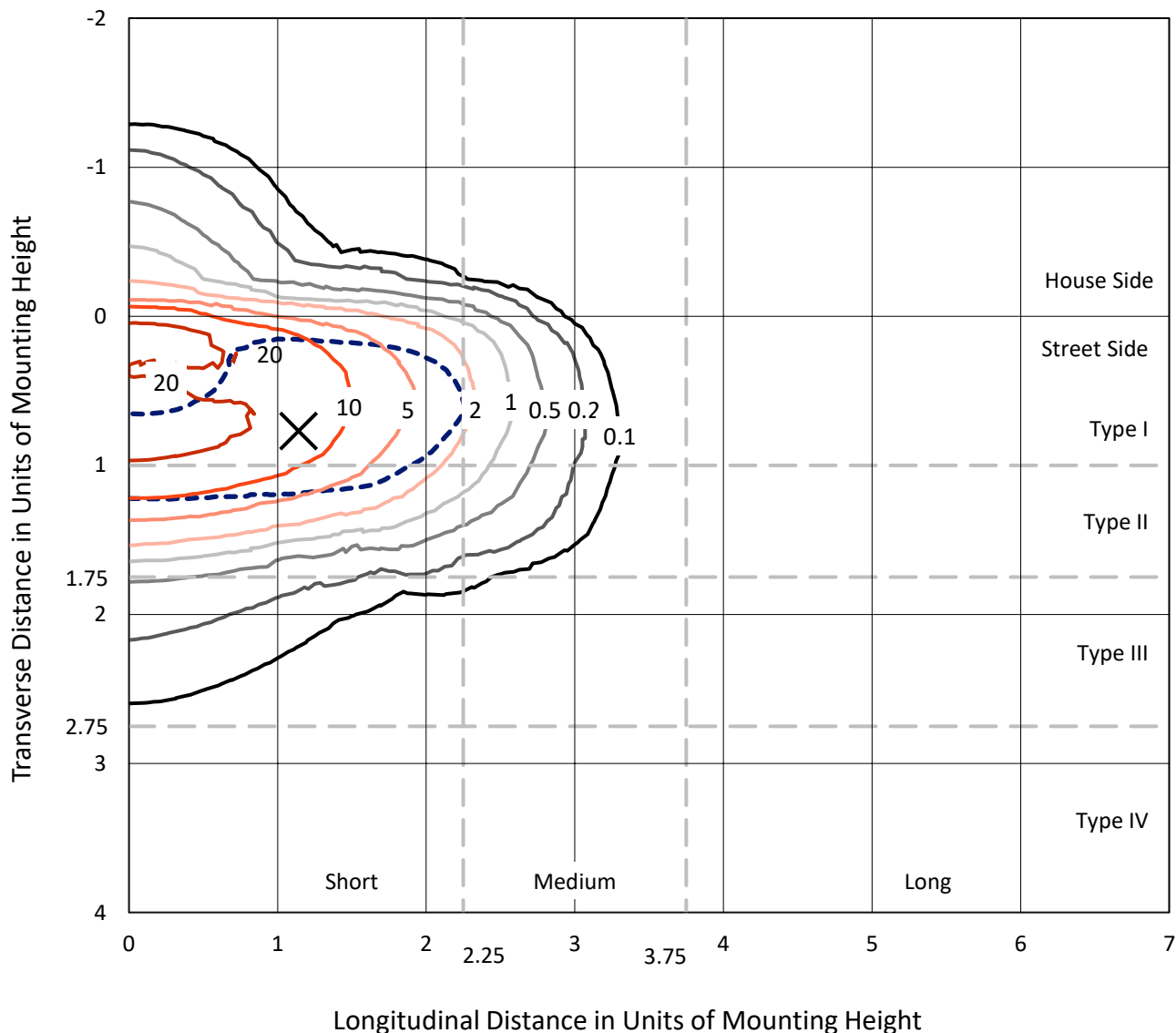
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

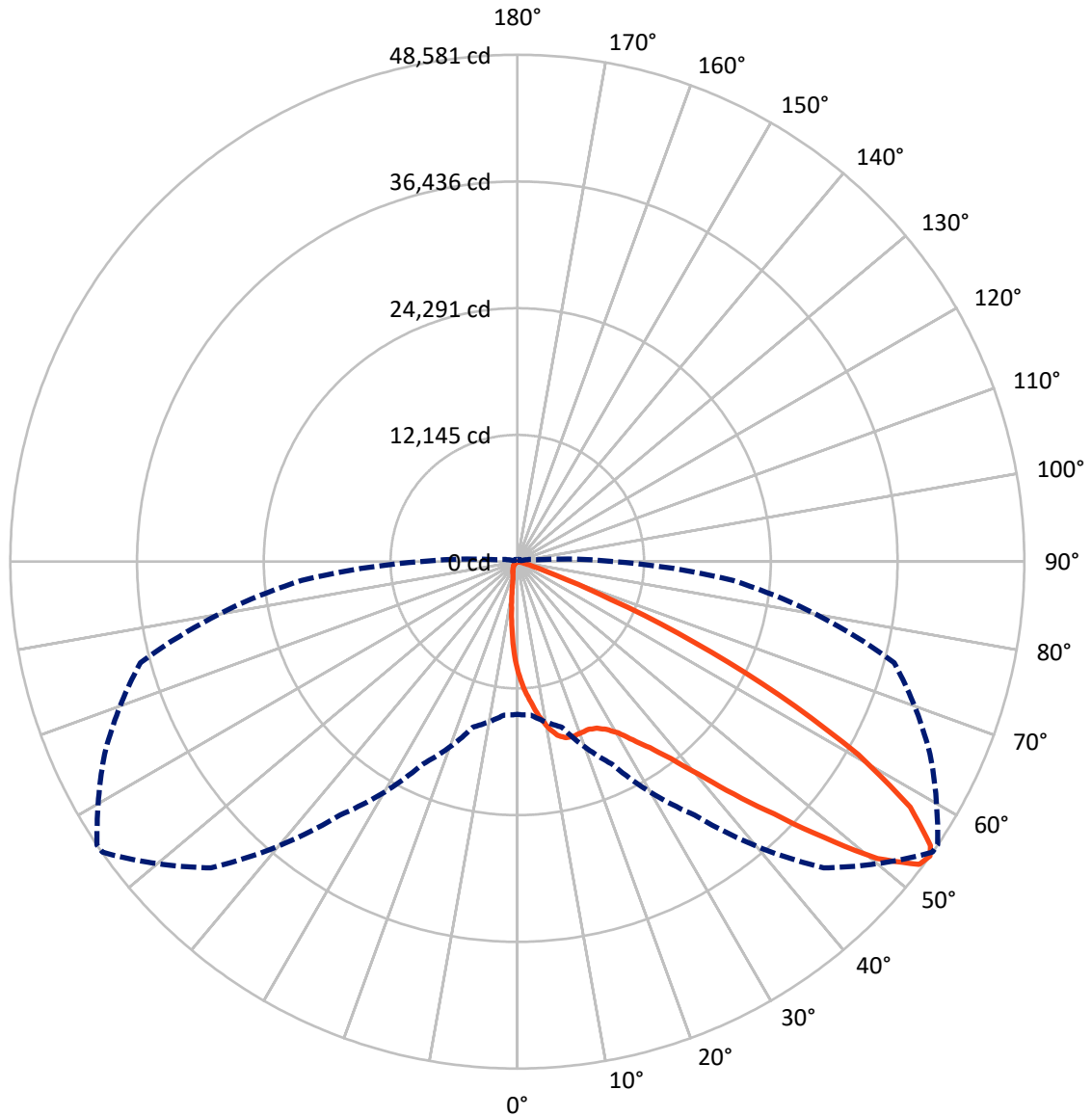
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



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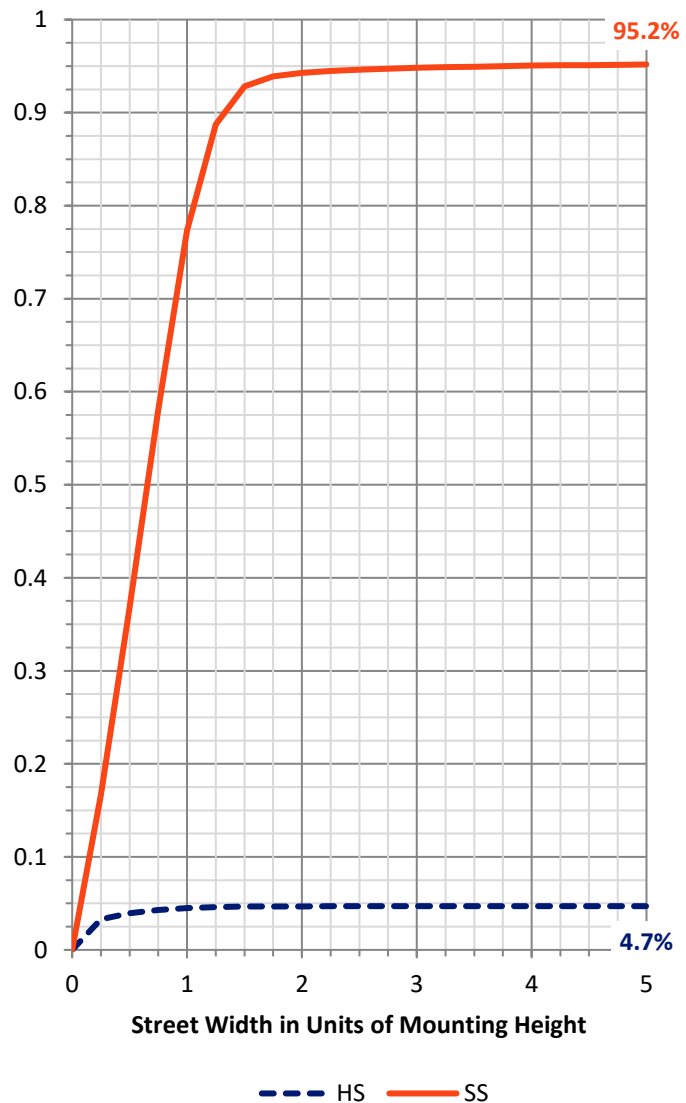
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.5	0.0	2254.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	45422.5	0.0	45422.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	47677.0	0.0	47677.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.0	2.0
10°-20°	2530.4	5.3
20°-30°	4382.4	9.2
30°-40°	7564.6	15.9
40°-50°	12875.3	27.0
50°-60°	12741.7	26.7
60°-70°	5815.6	12.2
70°-80°	746.9	1.6
80°-90°	84.2	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°	47677.0	100.0
0°-180°	47677.0	100.0



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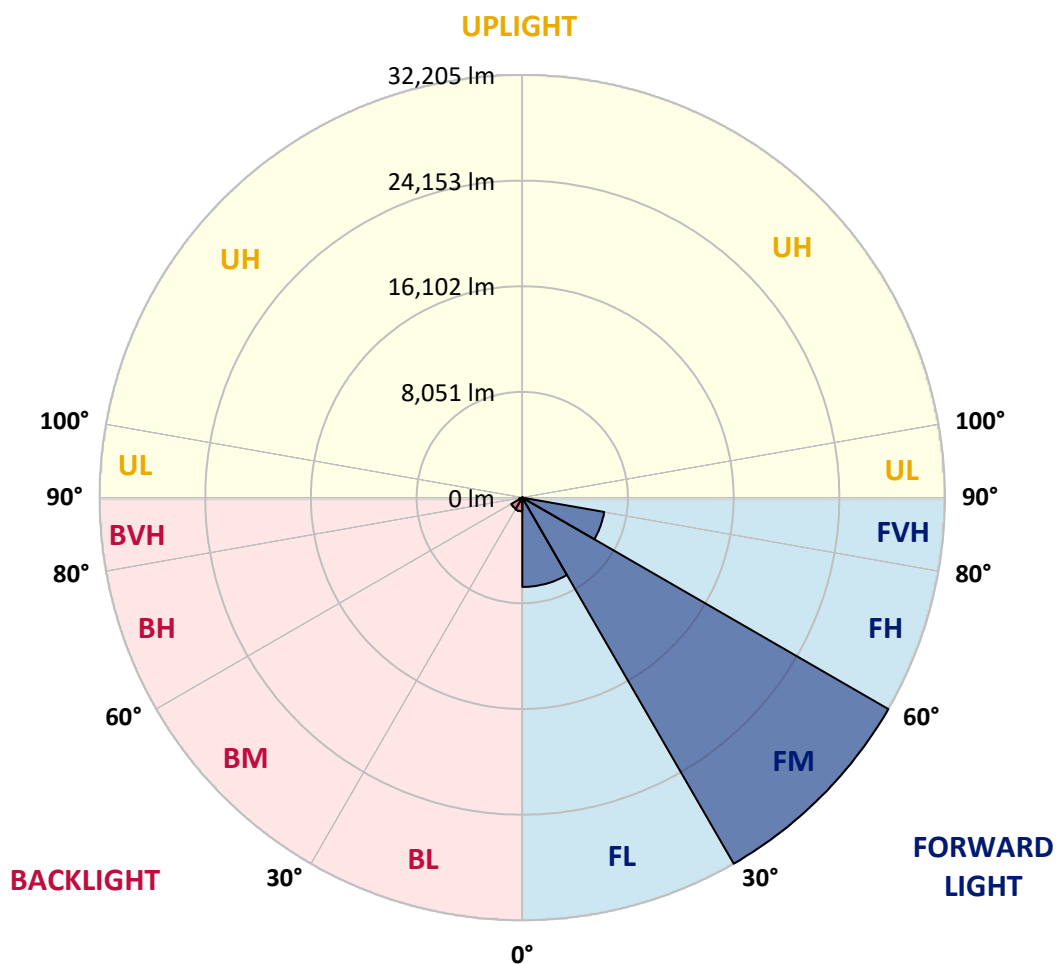
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6806.1	14.3			
FM	(30°-60°)	32204.6	67.5			
FH	(60°-80°)	6336.7	13.3			G3/7500
FVH	(80°-90°)	75.1	0.2			G1/100
BL	(0°-30°)	1042.7	2.2	B3/2500		
BM	(30°-60°)	977.1	2.0	B1/1000		
BH	(60°-80°)	225.7	0.5	B1/500		G1/500
BVH	(80°-90°)	9.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5
2.5°	13461.7	13368.4	13239.8	13140.1	12905.2	12567.5	12210.4	12210.4	11866.3	11387.0	10898.0
5°	15526.8	15465.7	15340.2	15082.9	14819.1	14346.3	13629.0	13503.5	12889.2	12020.7	11107.1
7.5°	16366.4	16395.3	16401.7	16334.2	16208.7	15742.3	15031.4	14944.6	13963.5	12799.1	11380.5
10°	15562.2	15703.7	15842.0	16121.9	16517.5	16630.1	16228.0	16138.0	15173.0	13587.2	11676.5
12.5°	14365.6	14442.8	14520.0	14960.7	15755.2	16665.5	17086.9	17083.7	16266.6	14372.0	12052.8
15°	13809.1	13876.7	13883.1	14079.3	14767.7	16092.9	17453.6	17501.8	17334.6	15340.2	12458.1
17.5°	13924.9	13979.6	13934.6	13982.8	14343.1	15462.5	17411.8	17572.6	18199.9	16269.9	12824.8
20°	14680.8	14787.0	14613.3	14478.2	14587.5	15295.2	17270.2	17495.4	18811.0	17177.0	13159.4
22.5°	16038.3	16096.2	15877.4	15507.5	15314.5	15645.8	17231.6	17453.6	19332.1	17920.0	13352.4
25°	17546.9	17527.6	17286.3	16871.4	16466.1	16353.5	17485.8	17685.2	19763.2	18589.1	13410.3
27.5°	19055.5	19113.4	18708.1	18193.4	17707.7	17415.0	18055.1	18203.1	20248.9	19351.4	13481.0
30°	20808.6	20715.3	20316.4	19727.8	19171.3	18762.8	18971.9	19013.7	20917.9	20361.5	13667.6
32.5°	23089.2	22831.8	22384.7	21355.4	20956.5	20265.0	20316.4	20367.9	21731.7	21361.8	13892.8
35°	26183.6	26170.7	25295.8	23909.4	22938.0	22079.1	21854.0	21895.8	22963.7	22847.9	14391.3
37.5°	29908.5	29960.0	28962.8	27566.8	25778.3	24414.4	23951.2	23957.7	24835.8	24900.2	15150.5
40°	32941.8	33076.9	32481.8	31539.3	29773.4	27640.8	26862.3	26791.6	27467.1	27386.6	16234.5
42.5°	34247.8	34373.2	34595.2	34923.3	33951.8	32192.3	30355.6	30452.1	30658.0	30095.1	17450.4
45°	33607.7	33807.1	34678.8	36705.3	37618.8	37027.0	34836.4	34498.7	33627.0	33038.3	18672.7
47.5°	30941.0	31426.8	32883.9	36258.2	39455.5	41456.3	39893.0	39445.9	36599.1	35187.0	19451.1
50°	26556.7	26585.7	28615.4	32928.9	38503.4	44251.6	45055.7	44721.2	39368.7	36393.3	19843.6
52.5°	19251.7	19885.4	21744.6	26740.1	34379.7	43827.0	48346.4	48208.1	42225.1	37010.9	20409.7
54°	14635.8	14758.0	16411.4	21368.3	29641.5	41494.9	48549.0	48581.2	43643.6	37384.0	20744.2
55°	11998.1	11705.4	13442.4	18203.1	26408.8	39433.0	47886.4	48040.8	44280.5	37577.0	20991.9
57.5°	5687.1	5690.3	7018.8	9601.7	16540.1	30619.4	43836.6	44383.5	44351.3	37908.3	21754.3
60°	2878.9	2898.2	3190.9	4432.6	8170.3	20355.0	36245.3	37548.1	40938.4	37956.6	22005.2
62.5°	2013.6	1991.1	1942.9	2132.6	3438.6	10344.8	26984.6	28116.8	34781.7	36119.9	21207.4
65°	1724.1	1675.9	1540.8	1511.8	1737.0	4120.5	16807.0	18653.4	26556.7	31275.6	18936.5
67.5°	1473.2	1453.9	1331.7	1257.7	1228.8	1794.9	8672.1	9643.5	18151.6	22481.2	14343.1
70°	1251.3	1241.6	1167.6	1074.4	993.9	1074.4	3216.7	3985.4	10116.4	12104.3	6767.9
72.5°	1016.5	1026.1	1039.0	920.0	836.3	762.3	1373.5	1598.7	4233.1	4326.4	2367.5
75°	891.0	881.4	881.4	800.9	698.0	566.1	755.9	813.8	1296.3	1203.0	550.0
77.5°	627.2	604.7	707.7	659.4	582.2	402.1	431.0	456.8	537.2	460.0	257.3
80°	434.2	434.2	453.5	591.9	524.3	292.7	263.8	283.1	318.4	273.4	148.0
82.5°	244.5	250.9	295.9	315.2	305.6	196.2	173.7	176.9	212.3	186.6	93.3
85°	28.9	48.2	170.5	167.3	125.4	86.8	96.5	99.7	131.9	115.8	54.7
87.5°	3.2	6.4	35.4	45.0	32.2	35.4	35.4	35.4	45.0	51.5	38.6
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°	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5	10592.5
2.5°	10634.3	10389.8	9807.6	9132.1	8701.1	7999.8	7408.0	6980.2	6874.0	6668.1	6729.3
5°	10621.4	10113.2	8926.2	7671.7	6333.6	5336.4	4593.4	4008.0	3750.6	3580.1	3461.1
7.5°	10627.8	9833.3	7929.1	5931.5	4332.8	3355.0	2666.6	2309.6	2071.5	1971.8	1984.7
10°	10647.1	9518.1	6771.1	4394.0	2923.9	2168.0	1746.6	1576.2	1495.7	1482.9	1479.7
12.5°	10692.2	9173.9	5664.5	3261.7	2045.8	1576.2	1415.3	1357.4	1331.7	1331.7	1322.0
15°	10740.4	8794.3	4744.6	2425.4	1576.2	1354.2	1280.2	1251.3	1235.2	1235.2	1232.0
17.5°	10740.4	8356.9	3885.7	1881.7	1357.4	1244.8	1186.9	1148.3	1135.5	1135.5	1132.3
20°	10672.9	7848.6	3123.4	1515.0	1232.0	1141.9	1084.0	1042.2	1026.1	1019.7	1016.5
22.5°	10438.1	7169.9	2486.5	1302.7	1129.0	1051.8	977.9	929.6	916.7	910.3	913.5
25°	10019.9	6404.4	1968.6	1145.1	1035.8	942.5	878.1	842.8	829.9	829.9	833.1
27.5°	9588.9	5603.4	1560.1	1026.1	923.2	839.5	788.1	765.6	762.3	772.0	775.2
30°	9190.0	4799.3	1264.1	929.6	823.5	752.7	717.3	710.9	710.9	714.1	717.3
32.5°	8746.1	4094.8	1058.3	846.0	743.0	681.9	662.6	662.6	669.1	669.1	675.5
35°	8466.2	3490.1	929.6	765.6	681.9	630.5	617.6	620.8	630.5	643.3	649.8
37.5°	8315.1	3007.6	846.0	701.2	624.0	588.6	575.8	582.2	604.7	627.2	630.5
40°	8327.9	2644.1	778.4	646.5	579.0	540.4	530.7	550.0	572.6	595.1	598.3
42.5°	8469.5	2373.9	714.1	582.2	540.4	485.7	482.5	501.8	511.4	534.0	537.2
45°	8636.7	2177.7	646.5	514.7	469.6	421.4	424.6	440.7	453.5	488.9	495.4
47.5°	8688.2	2042.6	569.3	437.5	386.0	369.9	373.1	382.8	408.5	440.7	443.9
50°	8746.1	1958.9	495.4	369.9	328.1	324.9	328.1	334.5	350.6	363.5	360.3
52.5°	8993.8	1955.7	434.2	321.7	279.8	286.3	289.5	286.3	273.4	254.1	247.7
54°	9225.4	1965.4	405.3	299.1	257.3	267.0	263.8	247.7	215.5	196.2	186.6
55°	9411.9	1975.0	389.2	283.1	244.5	247.7	250.9	218.7	176.9	157.6	151.2
57.5°	9778.6	1952.5	350.6	247.7	215.5	202.6	199.4	144.7	96.5	83.6	77.2
60°	9595.3	1762.7	318.4	212.3	183.3	164.0	135.1	80.4	48.2	35.4	35.4
62.5°	8874.8	1495.7	283.1	173.7	151.2	125.4	70.8	45.0	22.5	12.9	9.6
65°	7938.7	1257.7	254.1	138.3	119.0	80.4	38.6	28.9	9.6	0.0	0.0
67.5°	5902.6	932.8	215.5	109.4	90.1	51.5	25.7	16.1	3.2	0.0	0.0
70°	2734.2	569.3	183.3	83.6	64.3	38.6	19.3	9.6	0.0	0.0	0.0
72.5°	784.9	357.0	151.2	61.1	45.0	32.2	16.1	6.4	3.2	0.0	0.0
75°	273.4	286.3	112.6	45.0	35.4	22.5	12.9	6.4	3.2	0.0	0.0
77.5°	164.0	231.6	70.8	38.6	28.9	19.3	12.9	6.4	3.2	3.2	0.0
80°	93.3	154.4	45.0	32.2	25.7	16.1	9.6	6.4	3.2	3.2	0.0
82.5°	51.5	74.0	35.4	28.9	22.5	16.1	9.6	6.4	3.2	3.2	3.2
85°	41.8	38.6	28.9	25.7	19.3	12.9	9.6	3.2	0.0	0.0	0.0
87.5°	32.2	25.7	25.7	25.7	19.3	12.9	9.6	3.2	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)