

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: P190946

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 43823.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 511
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: 25 FT

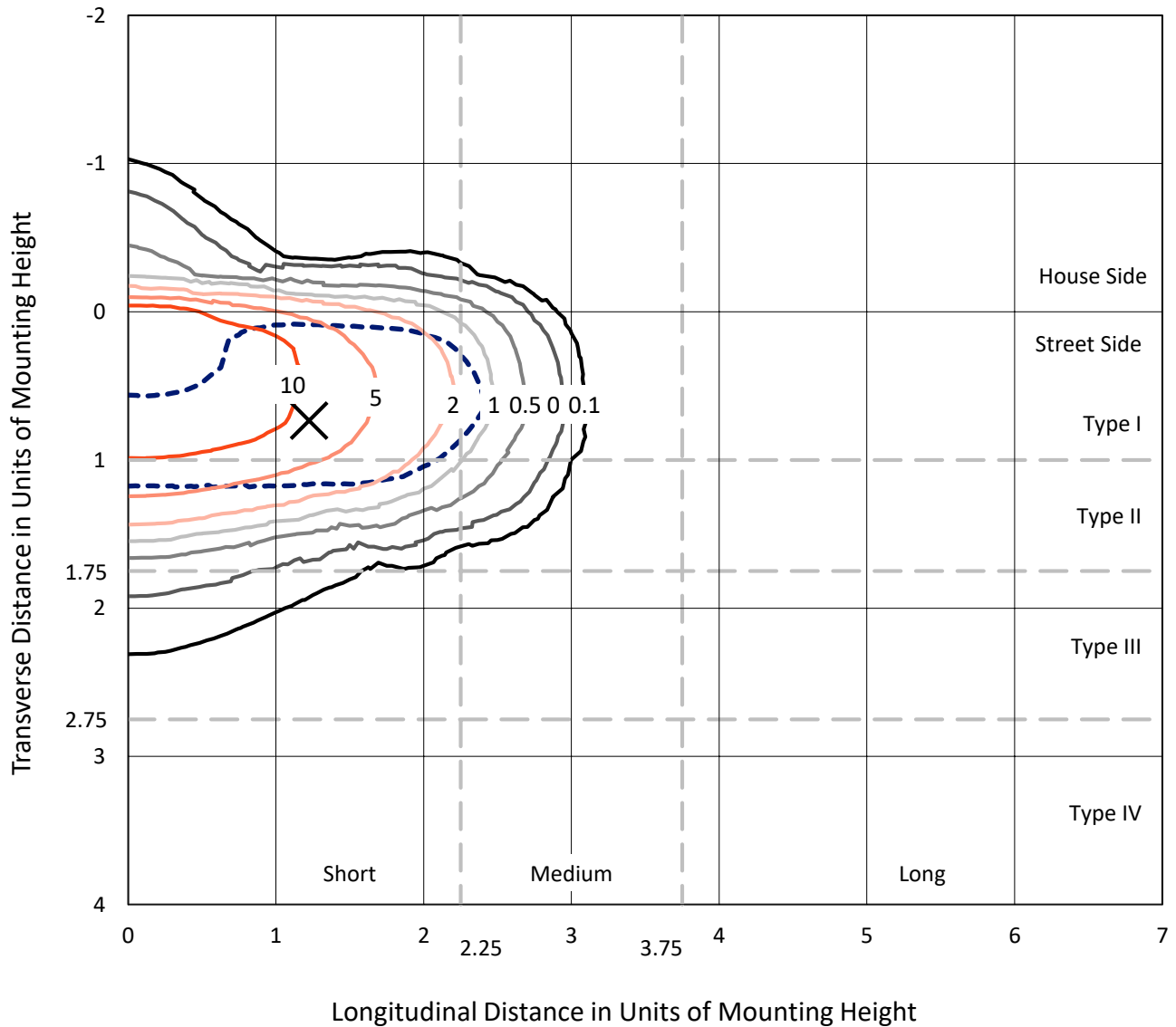


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

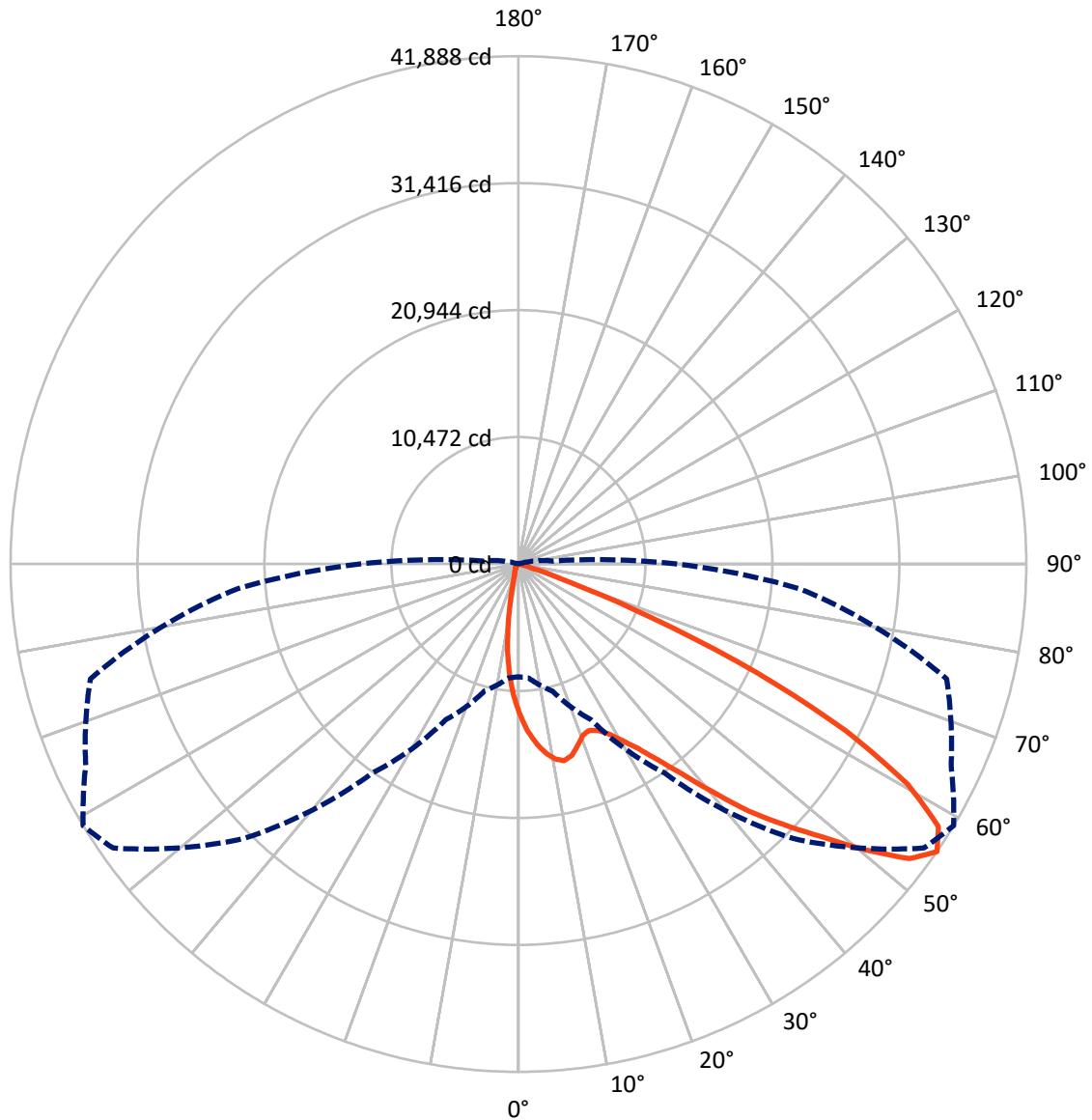


Based on 30 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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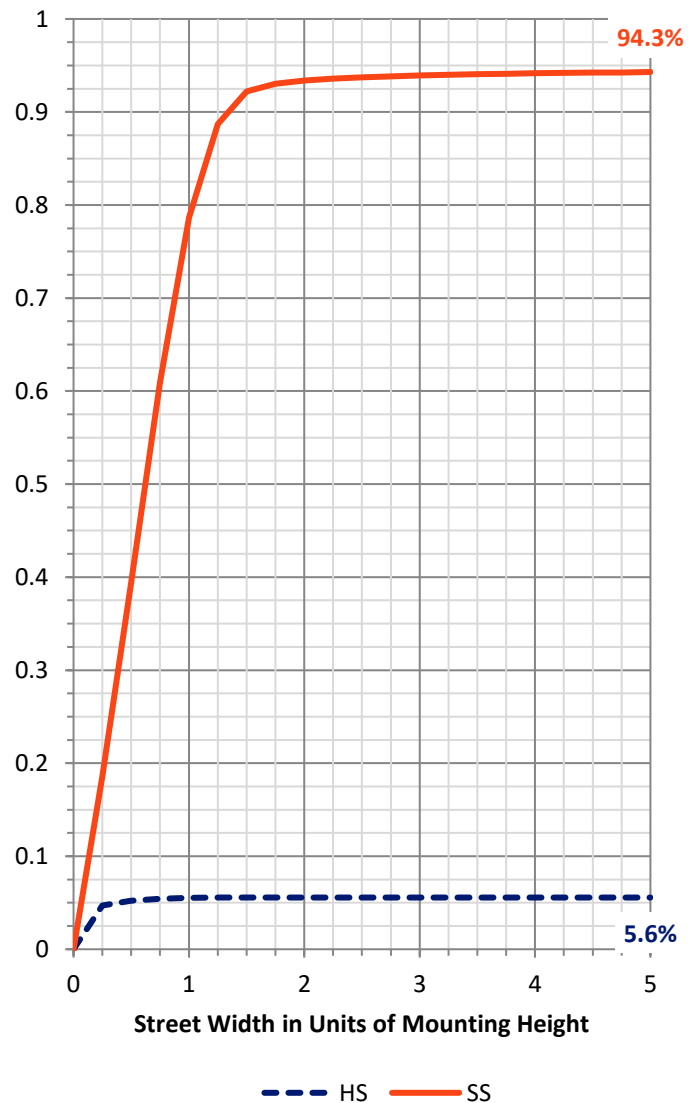
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.8	0.0	2447.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	41375.4	0.0	41375.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	43823.2	0.0	43823.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.3	2.4
10°-20°	2474.0	5.6
20°-30°	4209.7	9.6
30°-40°	7239.8	16.5
40°-50°	11177.5	25.5
50°-60°	11236.9	25.6
60°-70°	5762.4	13.1
70°-80°	624.5	1.4
80°-90°	65.3	0.1
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°	43823.2	100.0
0°-180°	43823.2	100.0

Coefficient of Utilization



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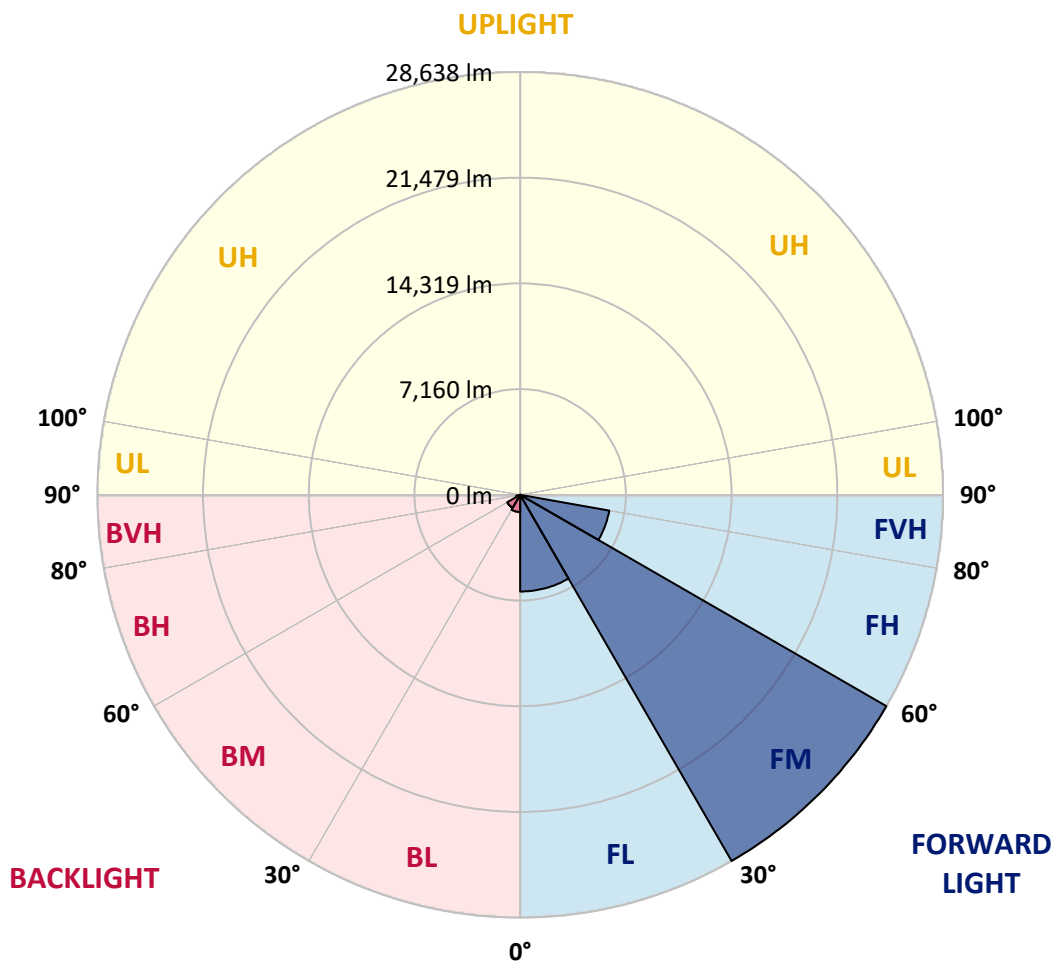
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6548.6	14.9			
FM	(30°-60°)	28638.3	65.3			
FH	(60°-80°)	6124.6	14.0			G3/7500
FVH	(80°-90°)	63.9	0.1			G1/100
BL	(0°-30°)	1168.3	2.7	B3/2500		
BM	(30°-60°)	1015.9	2.3	B2/2500		
BH	(60°-80°)	262.2	0.6	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	59°	65°	75°	85°
0°	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1
2.5°	14596.4	14441.2	14394.7	14363.7	14221.4	14043.0	13799.8	13686.1	13453.3	13078.3	12618.0
5°	15933.5	15905.0	15801.5	15744.6	15592.1	15338.6	14950.7	14764.5	14394.7	13763.6	12938.7
7.5°	15349.0	15527.5	15669.7	15907.6	16207.6	16197.2	15871.4	15677.4	15263.7	14430.9	13295.6
10°	13091.2	13236.1	13468.8	14009.3	15111.0	16083.4	16466.2	16326.6	15995.5	15043.8	13639.5
12.5°	12649.0	12633.4	12674.9	12832.6	13409.4	14795.6	16365.4	16647.2	16580.0	15605.0	13965.3
15°	12884.4	12866.3	12861.0	12915.4	13055.0	13639.5	15607.6	16417.0	16936.9	16124.9	14242.1
17.5°	13543.9	13466.2	13424.9	13380.9	13339.5	13484.3	14697.2	15773.1	16991.2	16580.0	14472.3
20°	14674.0	14544.7	14392.1	14143.8	13911.1	13838.7	14314.5	15111.0	16797.3	16926.6	14622.3
22.5°	16093.8	15928.3	15664.4	15211.9	14738.7	14464.5	14503.3	14901.5	16507.6	17304.1	14692.1
25°	17689.5	17477.4	17125.7	16497.2	15801.5	15315.3	15061.9	15201.6	16375.7	17746.4	14772.2
27.5°	19398.9	19163.6	18703.2	17847.2	17058.4	16401.6	15884.3	15866.2	16600.7	18325.7	14901.5
30°	21092.8	21056.6	20456.7	19551.6	18506.7	17707.6	16962.8	16867.0	17229.2	19127.3	15157.6
32.5°	23353.3	23081.7	22347.2	21416.2	20211.0	19251.5	18369.6	18147.2	18193.8	20061.0	15553.3
35°	26203.2	25905.7	24871.3	23586.0	22238.5	21105.8	20130.9	19828.3	19714.4	21589.4	16220.5
37.5°	28044.5	28039.4	27390.2	26081.7	24635.9	23386.8	22326.5	21972.2	21742.0	23436.0	17255.0
40°	28093.7	28215.2	28300.5	28287.7	27258.4	26107.4	25166.1	24729.0	24193.7	25903.2	18592.0
42.5°	26585.9	26898.9	27651.4	28929.0	29539.3	29081.6	28287.7	27858.3	27061.8	28543.7	20221.4
45°	24548.1	24765.2	26081.7	28435.1	30775.6	32029.8	31424.6	30656.6	29606.5	31297.9	21682.6
47.5°	23635.1	23673.8	24524.7	27108.3	30868.7	34445.3	34812.6	33563.4	31918.6	33516.9	22825.6
50°	20906.7	20976.5	22150.7	24809.2	29777.3	35585.8	38216.0	37031.5	34440.2	35226.3	23242.0
52.5°	15757.6	15855.8	17345.5	21030.8	26777.3	35099.6	40652.2	40365.1	37202.2	36061.7	23265.3
55°	9297.3	9426.6	10849.0	14156.7	21061.8	32006.6	40833.2	41888.3	39382.4	36555.7	23229.1
57.5°	4342.2	4432.8	5247.3	7293.0	13099.0	25295.4	38107.4	40843.6	40585.0	36816.8	23485.1
60°	2306.9	2332.7	2529.2	3157.7	5919.7	16039.5	32787.6	36881.5	39488.4	37178.9	23798.0
62.5°	1763.8	1771.5	1761.2	1836.2	2487.9	7119.7	24783.3	30320.4	35073.8	36907.3	23451.5
65°	1528.4	1541.4	1469.0	1450.9	1595.7	2539.6	14723.1	21612.7	27561.0	33242.7	21090.3
67.5°	1370.7	1375.9	1287.9	1212.9	1238.8	1373.3	5808.5	11831.8	18242.9	24367.0	15286.9
70°	1262.0	1256.9	1161.2	1042.2	1008.6	938.8	1846.5	4337.0	8718.0	12356.7	7109.4
72.5°	1117.3	1119.8	1073.3	918.1	837.9	656.9	856.0	1264.7	2601.7	3367.2	1665.5
75°	990.5	977.5	920.7	822.5	690.5	431.9	424.1	563.7	801.7	796.6	359.5
77.5°	716.4	703.5	721.6	674.9	530.2	279.3	212.1	271.6	325.8	315.5	100.9
80°	525.0	517.2	465.5	561.2	468.1	191.4	131.9	144.8	168.1	142.2	31.0
82.5°	359.5	356.9	328.5	310.4	266.4	116.4	82.8	90.5	108.6	80.2	15.5
85°	56.9	64.7	237.9	188.8	157.7	51.8	56.9	62.1	72.4	44.0	5.2
87.5°	0.0	0.0	111.2	98.3	31.0	20.7	33.7	36.2	36.2	23.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1	12336.1
2.5°	12382.6	12124.0	11645.6	11151.6	10693.8	10148.2	9773.2	9491.2	9165.4	9077.5	9268.9
5°	12467.9	11979.2	10949.9	9830.0	8777.5	7611.2	6718.8	6012.9	5374.1	5156.8	5353.4
7.5°	12602.4	11875.7	10197.3	8353.3	6522.3	4701.7	3455.1	2635.3	2112.9	1957.7	2040.5
10°	12737.0	11725.8	9325.7	6605.1	4101.7	2288.8	1489.6	1189.7	1078.4	1055.2	1068.1
12.5°	12848.2	11524.1	8262.9	4696.5	2193.1	1225.8	975.0	925.9	910.3	910.3	915.5
15°	12915.4	11218.8	7003.3	2987.0	1262.0	925.9	850.9	835.3	835.3	837.9	843.1
17.5°	12907.6	10830.9	5624.9	1807.8	944.0	819.8	775.8	762.9	760.4	765.5	768.1
20°	12811.9	10324.0	4241.4	1192.2	822.5	747.4	703.5	680.2	677.6	682.7	687.9
22.5°	12630.9	9698.2	3033.6	918.1	742.3	677.6	623.3	602.6	602.6	607.7	613.0
25°	12411.1	8932.7	2074.1	778.5	669.8	602.6	550.9	532.8	538.0	550.9	553.4
27.5°	12136.9	8071.5	1409.4	667.3	581.9	527.5	488.8	475.9	488.8	506.9	512.1
30°	11901.6	7174.1	1006.1	576.7	494.0	455.2	431.9	431.9	450.0	483.7	491.3
32.5°	11720.6	6305.1	775.8	509.4	429.3	395.7	382.8	395.7	424.1	457.8	465.5
35°	11697.3	5588.7	656.9	455.2	382.8	349.1	343.9	367.2	395.7	421.6	426.7
37.5°	11875.7	4926.6	592.2	411.2	341.4	310.4	305.1	333.6	362.0	393.1	400.9
40°	12214.5	4406.9	545.6	369.8	307.8	274.2	263.8	284.5	323.3	364.7	375.0
42.5°	12654.2	3977.5	494.0	328.5	274.2	227.6	214.6	237.9	279.3	323.3	336.2
45°	13073.1	3607.7	437.1	281.9	230.2	175.8	170.7	201.7	222.4	266.4	276.7
47.5°	13303.3	3281.8	387.9	230.2	178.4	142.2	142.2	150.0	170.7	222.4	232.7
50°	13225.7	3020.7	336.2	170.7	124.2	108.6	108.6	106.1	137.1	178.4	186.2
52.5°	13070.5	2870.7	289.7	131.9	85.3	77.5	69.9	77.5	95.6	113.8	116.4
55°	13047.2	2844.8	243.1	106.1	59.4	51.8	38.8	38.8	38.8	36.2	31.0
57.5°	13228.3	2886.2	204.3	85.3	44.0	33.7	20.7	0.0	0.0	0.0	0.0
60°	13414.5	2930.1	175.8	59.4	31.0	18.1	2.6	0.0	0.0	0.0	0.0
62.5°	13104.2	2831.8	147.4	36.2	23.3	7.8	0.0	0.0	0.0	0.0	0.0
65°	11511.1	2410.3	116.4	25.9	15.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8187.8	1613.8	77.5	15.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	3737.0	674.9	49.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	799.1	209.5	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	163.0	152.6	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	51.8	240.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.0	173.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)