

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: P190928

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190928
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-10-LED-E1-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA 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: 39861.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

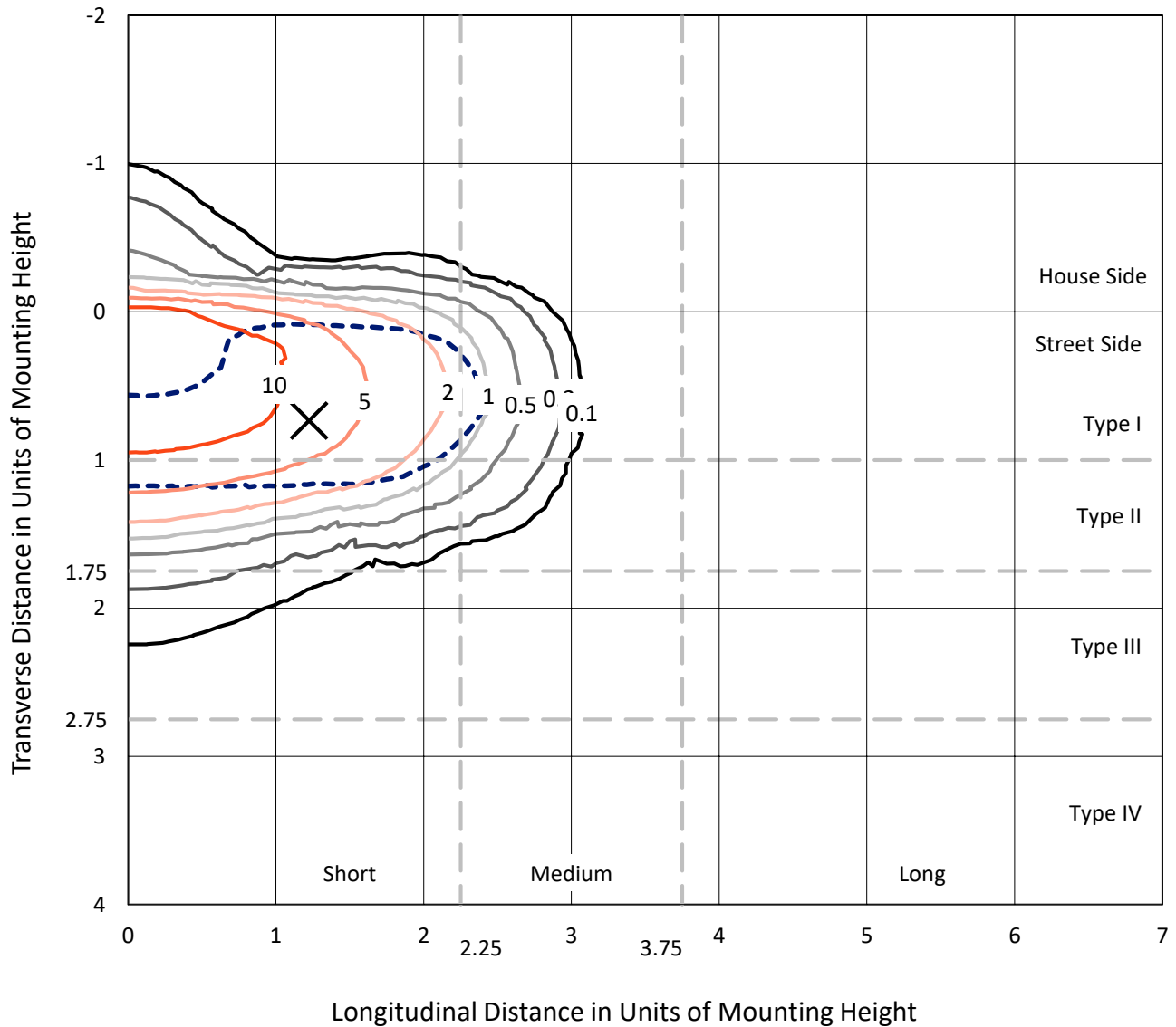
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

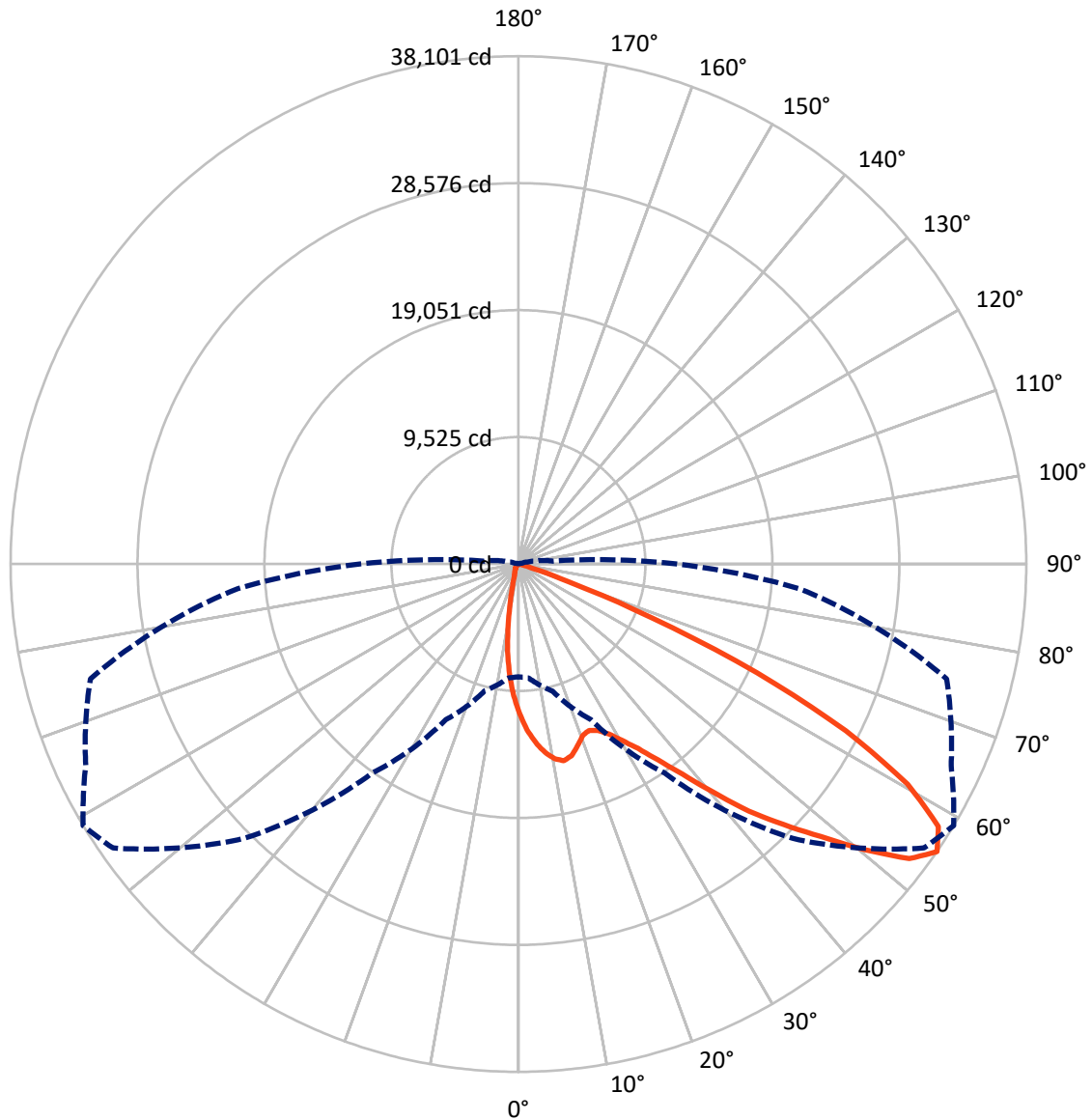
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 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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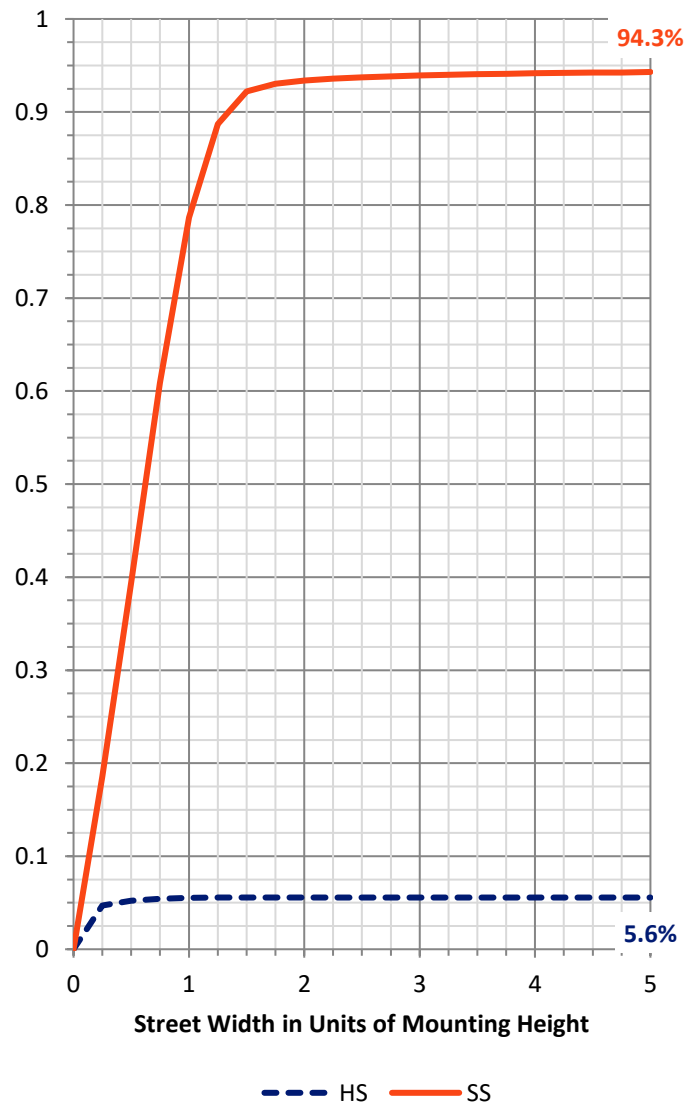
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2226.5	0.0	2226.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	37634.9	0.0	37634.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	39861.3	0.0	39861.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.9	2.4
10°-20°	2250.3	5.6
20°-30°	3829.1	9.6
30°-40°	6585.3	16.5
40°-50°	10167.0	25.5
50°-60°	10221.0	25.6
60°-70°	5241.4	13.1
70°-80°	568.0	1.4
80°-90°	59.4	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°	39861.3	100.0
0°-180°	39861.3	100.0

Coefficient of Utilization



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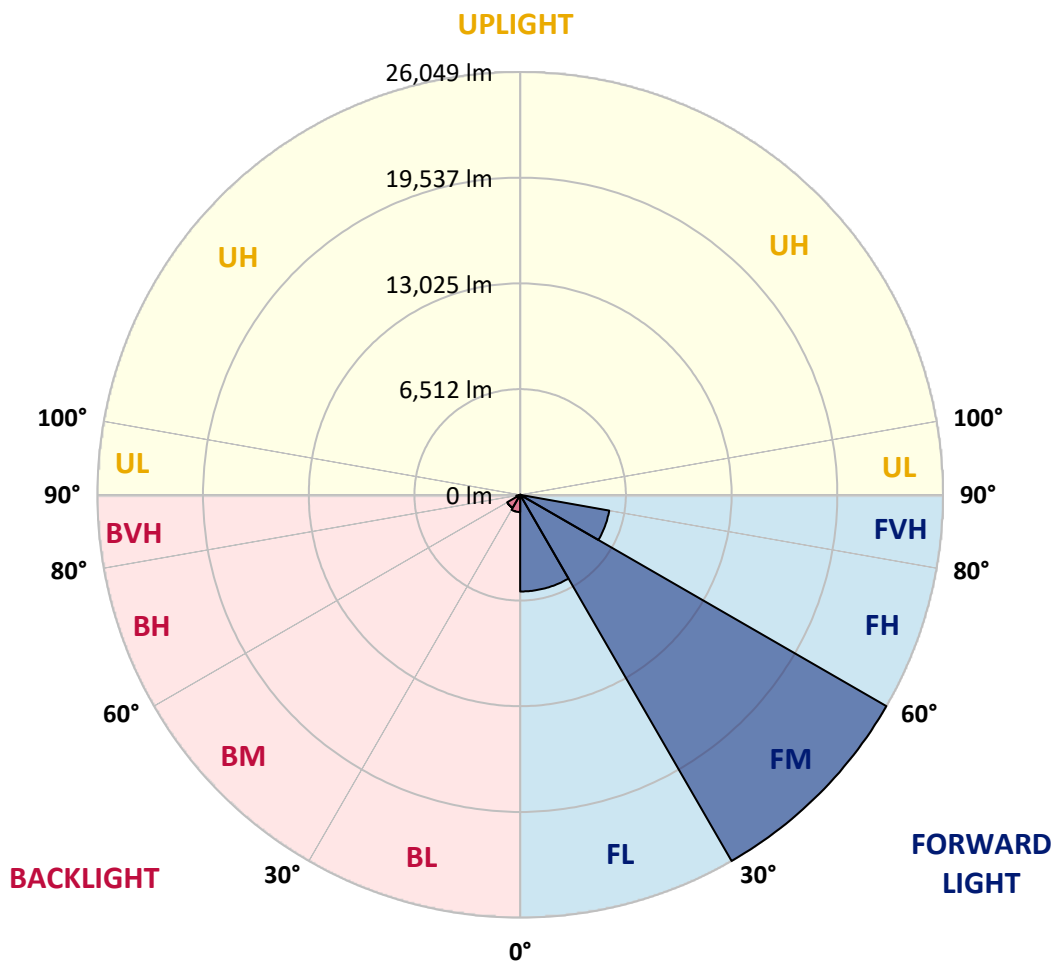
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5956.6	14.9			
FM (30°-60°)	26049.2	65.3			
FH (60°-80°)	5570.9	14.0			G3/7500
FVH (80°-90°)	58.2	0.1			G1/100
BL (0°-30°)	1062.7	2.7	B3/2500		
BM (30°-60°)	924.0	2.3	B1/1000		
BH (60°-80°)	238.5	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8
2.5°	13276.8	13135.6	13093.3	13065.1	12935.7	12773.4	12552.2	12448.8	12237.0	11896.0	11477.2
5°	14493.0	14467.1	14373.0	14321.2	14182.5	13951.9	13599.1	13429.7	13093.3	12519.3	11768.9
7.5°	13961.3	14123.7	14253.0	14469.4	14742.4	14732.9	14436.5	14260.0	13883.7	13126.2	12093.5
10°	11907.8	12039.4	12251.2	12742.8	13744.9	14629.4	14977.5	14850.5	14549.4	13683.7	12406.4
12.5°	11505.4	11491.3	11529.0	11672.5	12197.1	13457.9	14885.8	15142.2	15081.1	14194.3	12702.8
15°	11719.5	11703.1	11698.4	11747.8	11874.8	12406.4	14196.6	14932.8	15405.6	14667.1	12954.5
17.5°	12319.4	12248.8	12211.2	12171.2	12133.5	12265.3	13368.5	14347.1	15455.0	15081.1	13163.8
20°	13347.4	13229.7	13090.9	12865.1	12653.4	12587.5	13020.4	13744.9	15278.7	15396.3	13300.3
22.5°	14638.8	14488.3	14248.3	13836.6	13406.2	13156.8	13192.1	13554.4	15015.2	15739.7	13363.8
25°	16090.2	15897.4	15577.4	15005.8	14373.0	13930.7	13700.2	13827.2	14895.2	16142.0	13436.8
27.5°	17645.2	17431.1	17012.4	16233.7	15516.2	14918.7	14448.3	14431.8	15099.9	16668.9	13554.4
30°	19186.0	19153.0	18607.3	17783.9	16833.6	16106.7	15429.2	15342.2	15671.5	17398.1	13787.2
32.5°	21241.9	20994.9	20326.9	19480.0	18383.8	17511.1	16708.9	16506.6	16549.0	18247.4	14147.2
35°	23834.2	23563.7	22622.8	21453.6	20228.0	19197.7	18310.9	18035.6	17932.1	19637.6	14754.1
37.5°	25509.1	25504.4	24914.0	23723.7	22408.7	21272.5	20308.0	19985.8	19776.4	21317.2	15695.0
40°	25553.8	25664.4	25742.0	25730.3	24794.0	23747.2	22891.0	22493.4	22006.4	23561.3	16911.2
42.5°	24182.4	24467.0	25151.6	26313.7	26868.8	26452.4	25730.3	25339.7	24615.3	25963.1	18393.2
45°	22328.8	22526.3	23723.7	25864.4	27993.3	29134.2	28583.7	27885.0	26930.0	28468.4	19722.3
47.5°	21498.3	21533.6	22307.6	24657.6	28078.0	31331.2	31665.3	30529.0	29033.0	30486.8	20762.0
50°	19016.6	19080.1	20148.0	22566.3	27085.2	32368.6	34761.0	33683.6	31326.5	32041.7	21140.8
52.5°	14333.0	14422.4	15777.4	19129.5	24356.5	31926.4	36976.9	36715.9	33838.9	32801.5	21162.0
55°	8456.7	8574.4	9868.2	12876.9	19157.7	29113.0	37141.6	38101.3	35821.9	33250.8	21129.0
57.5°	3949.6	4032.0	4773.0	6633.7	11914.8	23008.5	34662.2	37151.0	36915.7	33488.3	21361.9
60°	2098.3	2121.8	2300.6	2872.2	5384.6	14589.4	29823.4	33547.2	35918.4	33817.7	21646.6
62.5°	1604.3	1611.4	1601.9	1670.2	2263.0	6476.1	22542.8	27579.3	31902.9	33570.7	21331.3
65°	1390.3	1402.1	1336.2	1319.7	1451.5	2310.0	13392.1	19658.8	25069.3	30237.4	19183.6
67.5°	1246.8	1251.5	1171.5	1103.3	1126.8	1249.1	5283.4	10762.1	16593.6	22164.1	13904.9
70°	1148.0	1143.2	1056.2	948.0	917.4	854.0	1679.6	3944.9	7929.8	11239.7	6466.7
72.5°	1016.2	1018.6	976.2	835.1	762.2	597.5	778.7	1150.3	2366.5	3062.8	1514.9
75°	900.9	889.1	837.5	748.1	628.1	392.8	385.8	512.8	729.3	724.6	326.9
77.5°	651.6	639.9	656.3	614.0	482.2	254.1	192.9	247.0	296.3	287.0	91.8
80°	477.5	470.5	423.4	510.5	425.8	174.1	120.0	131.8	152.9	129.4	28.2
82.5°	326.9	324.6	298.7	282.3	242.3	105.9	75.3	82.3	98.8	72.9	14.1
85°	51.8	58.8	216.5	171.8	143.5	47.1	51.8	56.5	65.9	40.0	4.7
87.5°	0.0	0.0	101.2	89.4	28.2	18.8	30.6	32.9	32.9	21.2	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°	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8	11220.8
2.5°	11263.2	11027.9	10592.8	10143.5	9727.0	9230.7	8889.6	8633.2	8336.8	8256.8	8430.9
5°	11340.7	10896.2	9960.0	8941.4	7983.9	6923.0	6111.4	5469.3	4888.3	4690.6	4869.5
7.5°	11463.1	10802.1	9275.4	7598.2	5932.7	4276.7	3142.8	2397.1	1921.9	1780.8	1856.0
10°	11585.4	10665.7	8482.6	6008.0	3730.9	2081.8	1355.0	1082.1	980.9	959.7	971.5
12.5°	11686.6	10482.2	7515.8	4271.9	1994.9	1115.0	886.8	842.2	828.1	828.1	832.8
15°	11747.8	10204.5	6370.2	2717.0	1148.0	842.2	774.0	759.8	759.8	762.2	766.9
17.5°	11740.7	9851.7	5116.4	1644.3	858.7	745.7	705.7	694.0	691.6	696.3	698.7
20°	11653.7	9390.7	3857.9	1084.4	748.1	679.9	639.9	618.7	616.3	621.0	625.7
22.5°	11489.0	8821.4	2759.3	835.1	675.1	616.3	566.9	548.1	548.1	552.8	557.5
25°	11289.1	8125.1	1886.6	708.1	609.3	548.1	501.0	484.6	489.3	501.0	503.4
27.5°	11039.7	7341.7	1282.1	606.9	529.3	479.9	444.6	432.8	444.6	461.0	465.7
30°	10825.6	6525.5	915.0	524.6	449.3	414.0	392.8	392.8	409.3	439.9	446.9
32.5°	10661.0	5735.1	705.7	463.4	390.5	359.9	348.1	359.9	385.8	416.3	423.4
35°	10639.8	5083.5	597.5	414.0	348.1	317.5	312.8	334.0	359.9	383.4	388.1
37.5°	10802.1	4481.2	538.7	374.0	310.5	282.3	277.6	303.4	329.3	357.5	364.6
40°	11110.3	4008.4	496.3	336.3	280.0	249.4	240.0	258.8	294.0	331.6	341.1
42.5°	11510.1	3618.0	449.3	298.7	249.4	207.0	195.3	216.5	254.1	294.0	305.8
45°	11891.3	3281.5	397.5	256.5	209.4	160.0	155.3	183.5	202.3	242.3	251.7
47.5°	12100.6	2985.2	352.8	209.4	162.3	129.4	129.4	136.5	155.3	202.3	211.8
50°	12030.0	2747.5	305.8	155.3	112.9	98.8	98.8	96.5	124.7	162.3	169.4
52.5°	11888.9	2611.2	263.5	120.0	77.6	70.6	63.5	70.6	87.1	103.5	105.9
55°	11867.8	2587.7	221.2	96.5	54.1	47.1	35.3	35.3	35.3	32.9	28.2
57.5°	12032.4	2625.2	185.9	77.6	40.0	30.6	18.8	0.0	0.0	0.0	0.0
60°	12201.8	2665.2	160.0	54.1	28.2	16.5	2.4	0.0	0.0	0.0	0.0
62.5°	11919.4	2575.9	134.1	32.9	21.2	7.1	0.0	0.0	0.0	0.0	0.0
65°	10470.4	2192.4	105.9	23.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7447.6	1467.8	70.6	14.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3399.2	614.0	44.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	726.9	190.6	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	148.2	138.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	47.1	218.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.2	157.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	23.5	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)