

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: P190936

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190936
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 39949.3 lumens
Efficiency: N/A
Efficacy: 89.8 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): 445
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

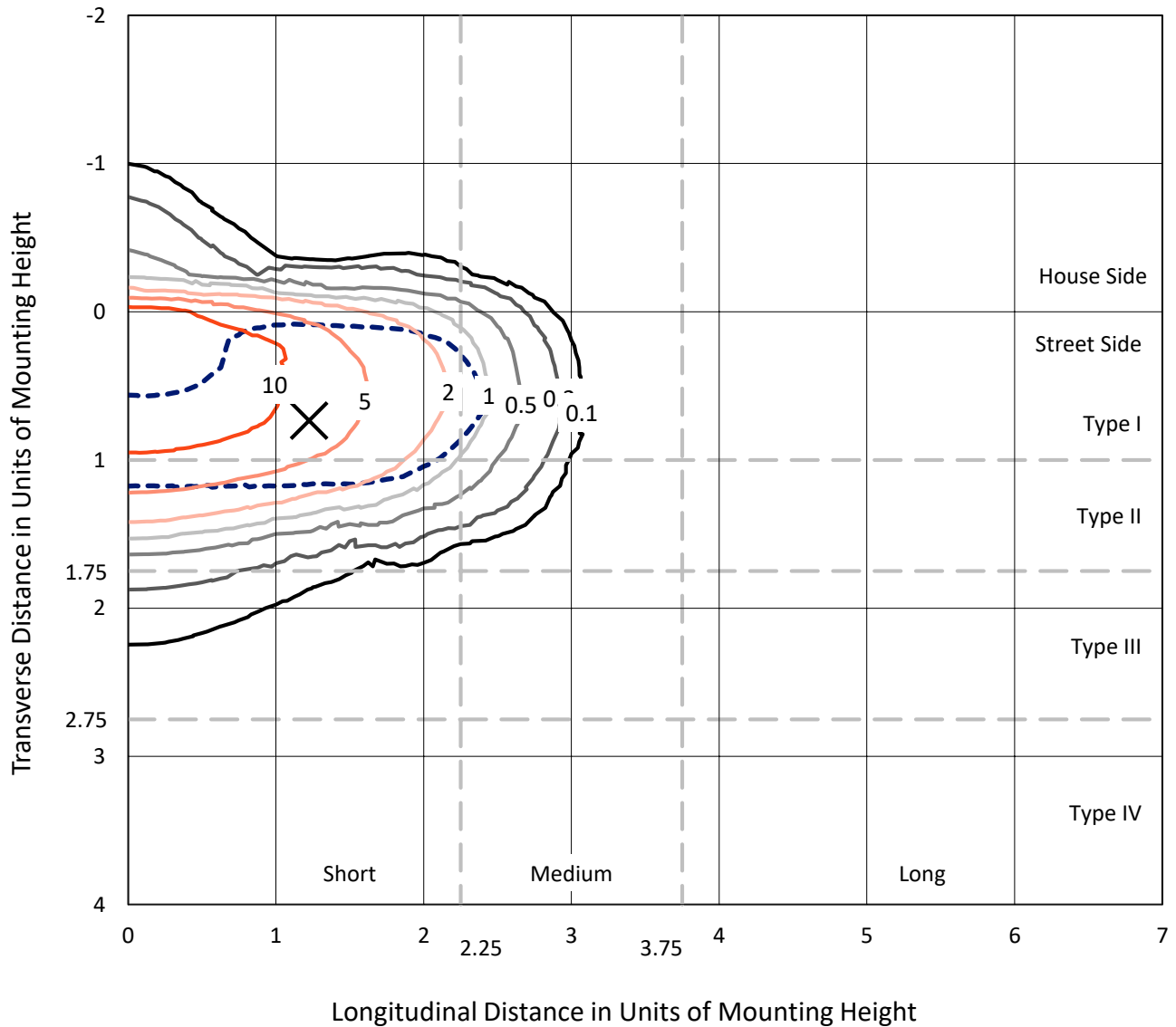


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

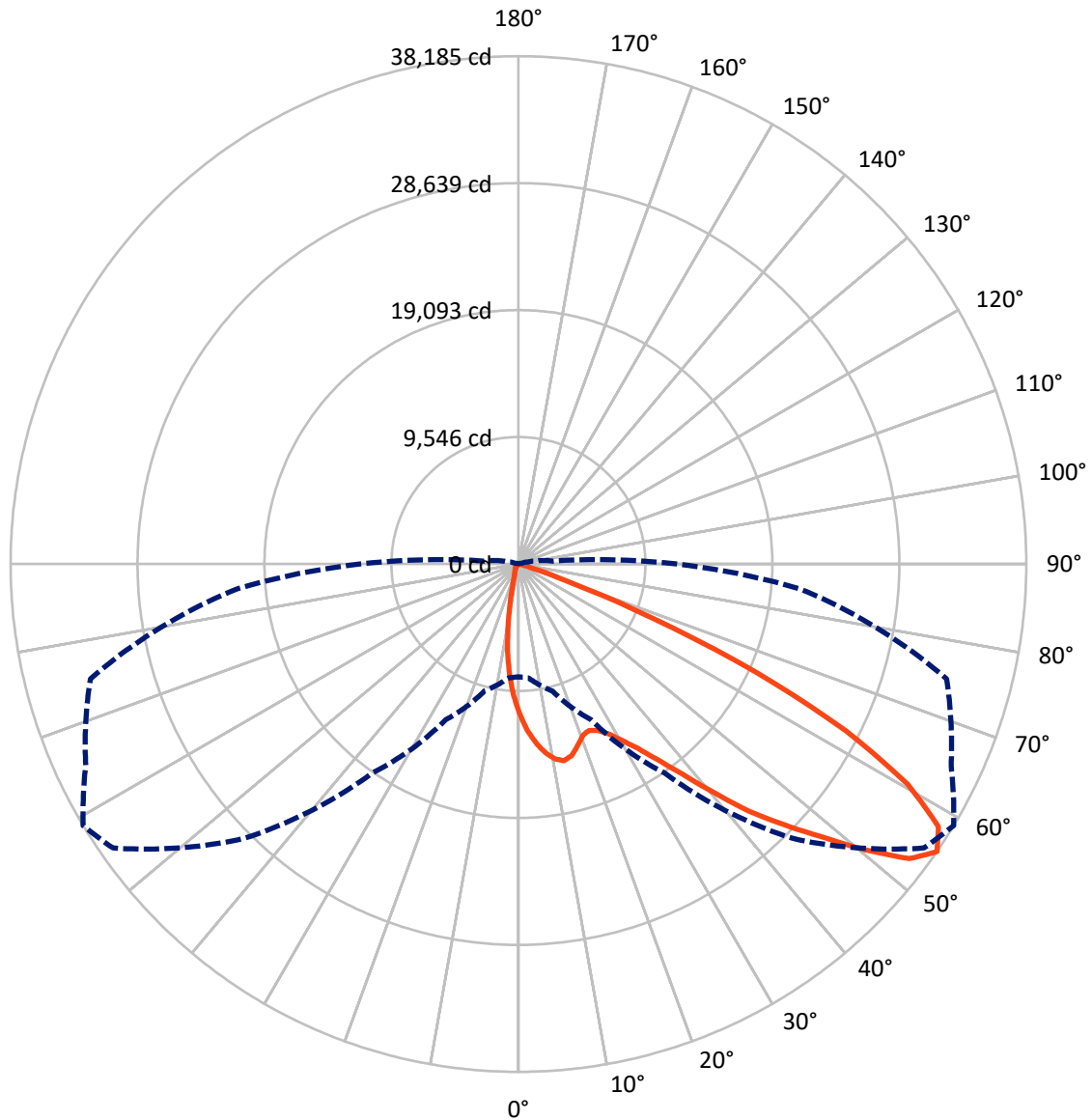


Based on 30 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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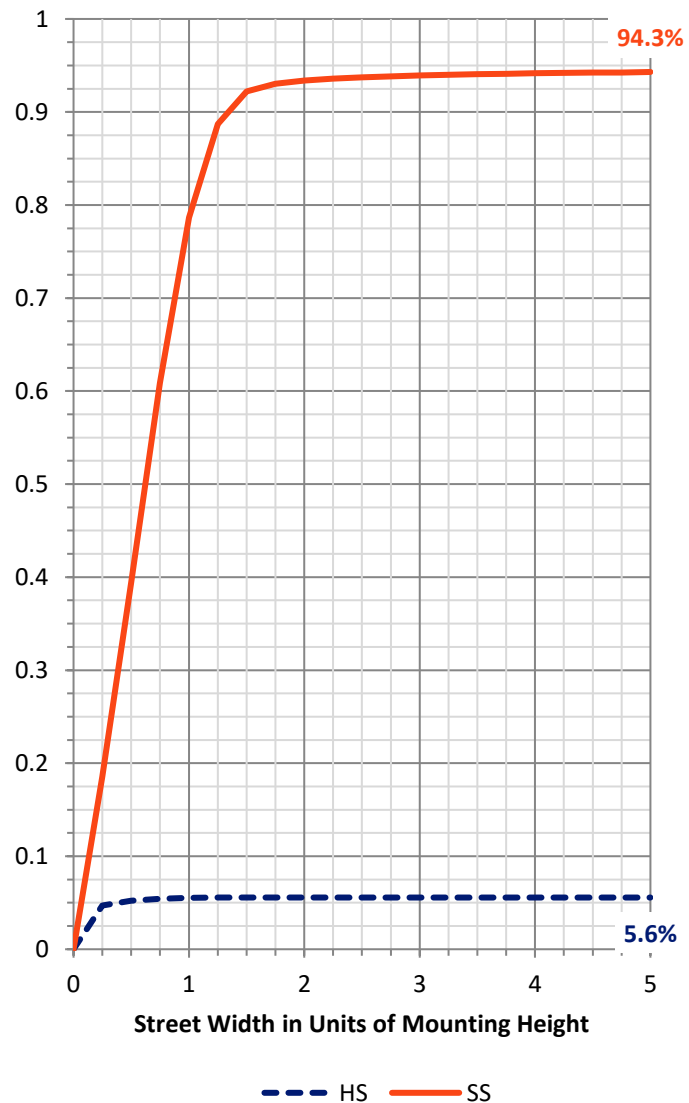
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2231.4	0.0	2231.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	37717.9	0.0	37717.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	39949.3	0.0	39949.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.9	2.4
10°-20°	2255.3	5.6
20°-30°	3837.6	9.6
30°-40°	6599.8	16.5
40°-50°	10189.4	25.5
50°-60°	10243.6	25.6
60°-70°	5253.0	13.1
70°-80°	569.3	1.4
80°-90°	59.5	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°	39949.3	100.0
0°-180°	39949.3	100.0



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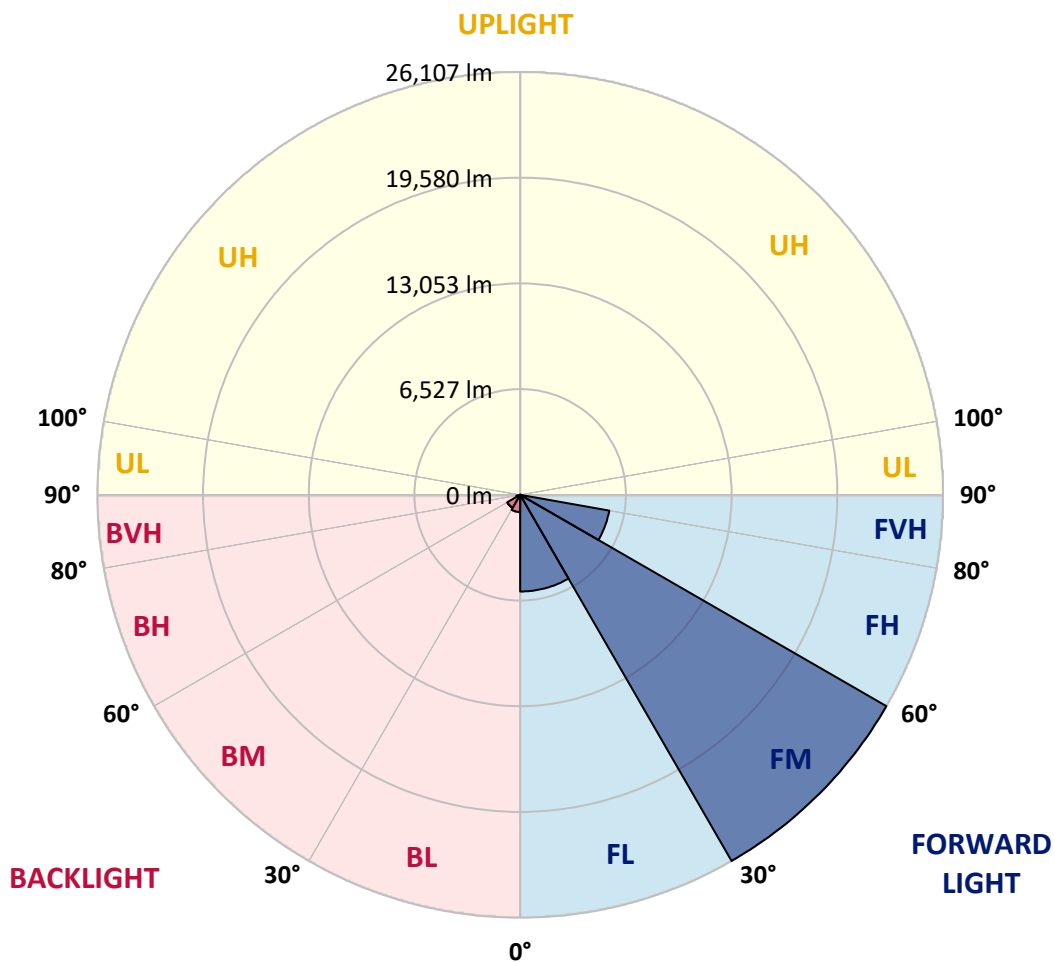
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5969.7	14.9			
FM (30°-60°)	26106.7	65.3			
FH (60°-80°)	5583.2	14.0			G3/7500
FVH (80°-90°)	58.3	0.1			G1/100
BL (0°-30°)	1065.0	2.7	B3/2500		
BM (30°-60°)	926.1	2.3	B1/1000		
BH (60°-80°)	239.1	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°	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6
2.5°	13306.1	13164.7	13122.2	13093.9	12964.3	12801.6	12579.9	12476.2	12264.1	11922.2	11502.6
5°	14525.0	14499.0	14404.7	14352.8	14213.8	13982.7	13629.1	13459.4	13122.2	12547.0	11794.9
7.5°	13992.1	14154.8	14284.5	14501.4	14774.9	14765.5	14468.4	14291.5	13914.4	13155.2	12120.2
10°	11933.9	12066.0	12278.2	12770.9	13775.3	14661.6	15010.6	14883.3	14581.6	13714.0	12433.8
12.5°	11530.8	11516.7	11554.4	11698.3	12224.0	13487.6	14918.7	15175.7	15114.3	14225.6	12730.8
15°	11745.4	11728.8	11724.1	11773.7	11901.0	12433.8	14227.9	14965.8	15439.7	14699.4	12983.1
17.5°	12346.6	12275.8	12238.1	12198.1	12160.3	12292.4	13398.0	14378.8	15489.2	15114.3	13192.9
20°	13376.8	13259.0	13119.9	12893.5	12681.3	12615.3	13049.2	13775.3	15312.3	15430.3	13329.7
22.5°	14671.2	14520.3	14279.8	13867.2	13435.7	13185.8	13221.2	13584.3	15048.3	15774.5	13393.3
25°	16125.7	15932.5	15611.8	15038.9	14404.7	13961.5	13730.5	13857.8	14928.1	16177.6	13466.4
27.5°	17684.1	17469.5	17049.9	16269.5	15550.5	14951.7	14480.2	14463.7	15133.2	16705.7	13584.3
30°	19228.3	19195.3	18648.3	17823.2	16870.7	16142.3	15463.2	15376.1	15706.1	17436.5	13817.7
32.5°	21288.8	21041.3	20371.8	19523.0	18424.4	17549.7	16745.8	16543.1	16585.5	18287.6	14178.4
35°	23886.8	23615.7	22672.7	21501.0	20272.7	19240.1	18351.3	18075.4	17971.7	19681.0	14786.7
37.5°	25565.4	25560.7	24969.0	23776.0	22458.2	21319.4	20352.8	20029.9	19820.1	21364.2	15729.7
40°	25610.2	25721.1	25798.8	25787.1	24848.7	23799.6	22941.4	22543.1	22055.0	23613.4	16948.6
42.5°	24235.8	24521.1	25207.0	26371.7	26928.1	26510.8	25787.1	25395.7	24669.6	26020.4	18433.8
45°	22378.0	22576.0	23776.0	25921.5	28055.0	29198.4	28646.8	27946.6	26989.4	28531.2	19765.9
47.5°	21545.8	21581.2	22356.8	24712.0	28139.8	31400.4	31735.2	30596.5	29097.0	30554.0	20807.8
50°	19058.6	19122.2	20192.5	22616.1	27145.0	32440.1	34837.7	33758.0	31395.7	32112.4	21187.5
52.5°	14364.7	14454.2	15812.2	19171.7	24410.3	31996.9	37058.5	36796.9	33913.6	32873.9	21208.6
55°	8475.5	8593.3	9890.0	12905.3	19200.0	29177.2	37223.5	38185.4	35901.0	33324.2	21175.7
57.5°	3958.3	4040.9	4783.5	6648.4	11941.1	23059.4	34738.7	37233.1	36997.3	33562.3	21409.0
60°	2103.0	2126.5	2305.7	2878.6	5396.5	14621.6	29889.2	33621.2	35997.6	33892.3	21694.3
62.5°	1607.9	1614.9	1605.5	1673.9	2268.0	6490.4	22592.6	27640.1	31973.2	33644.9	21378.4
65°	1393.4	1405.1	1339.1	1322.6	1454.6	2315.1	13421.6	19702.1	25124.6	30304.1	19226.0
67.5°	1249.5	1254.2	1174.0	1105.7	1129.2	1251.9	5295.1	10785.9	16630.2	22213.0	13935.6
70°	1150.5	1145.8	1058.5	950.1	919.4	855.8	1683.3	3953.6	7947.3	11264.4	6480.9
72.5°	1018.4	1020.8	978.4	837.0	763.8	598.8	780.3	1152.9	2371.7	3069.6	1518.3
75°	903.0	891.2	839.3	749.7	629.4	393.7	386.7	513.9	730.8	726.1	327.7
77.5°	653.1	641.3	657.8	615.3	483.3	254.6	193.3	247.6	297.1	287.7	92.0
80°	478.5	471.5	424.3	511.6	426.7	174.4	120.2	132.1	153.2	129.7	28.3
82.5°	327.7	325.3	299.4	282.9	242.8	106.1	75.4	82.6	99.0	73.0	14.1
85°	51.9	58.9	216.9	172.1	143.8	47.2	51.9	56.6	66.0	40.1	4.7
87.5°	0.0	0.0	101.4	89.6	28.3	18.8	30.7	33.0	33.0	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°	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6	11245.6
2.5°	11288.1	11052.3	10616.1	10165.8	9748.5	9251.1	8909.3	8652.2	8355.3	8275.1	8449.5
5°	11365.8	10920.2	9982.0	8961.2	8001.6	6938.3	6124.9	5481.4	4899.0	4701.0	4880.2
7.5°	11488.5	10825.9	9295.9	7614.9	5945.8	4286.1	3149.7	2402.4	1926.1	1784.6	1860.1
10°	11611.0	10689.2	8501.3	6021.2	3739.1	2086.4	1358.0	1084.4	983.1	961.9	973.6
12.5°	11712.4	10505.3	7532.4	4281.4	1999.3	1117.5	888.8	844.0	829.8	829.8	834.6
15°	11773.7	10227.2	6384.2	2723.0	1150.5	844.0	775.6	761.5	761.5	763.8	768.5
17.5°	11766.6	9873.5	5127.7	1648.0	860.5	747.4	707.3	695.5	693.2	697.9	700.2
20°	11679.3	9411.4	3866.4	1086.9	749.7	681.3	641.3	620.0	617.7	622.4	627.1
22.5°	11514.3	8840.9	2765.4	837.0	676.6	617.7	568.1	549.3	549.3	554.0	558.7
25°	11313.9	8143.0	1890.7	709.6	610.6	549.3	502.2	485.7	490.4	502.2	504.5
27.5°	11064.0	7358.0	1284.8	608.2	530.5	481.0	445.6	433.8	445.6	462.1	466.8
30°	10849.5	6539.9	917.1	525.7	450.3	414.9	393.7	393.7	410.2	440.9	448.0
32.5°	10684.5	5747.8	707.3	464.4	391.4	360.7	348.9	360.7	386.7	417.3	424.3
35°	10663.2	5094.7	598.8	414.9	348.9	318.2	313.5	334.8	360.7	384.3	389.0
37.5°	10825.9	4491.2	539.9	374.8	311.2	282.9	278.2	304.1	330.1	358.3	365.4
40°	11134.8	4017.3	497.5	337.2	280.6	249.9	240.5	259.3	294.7	332.5	341.9
42.5°	11535.6	3626.0	450.3	299.4	249.9	207.5	195.7	216.9	254.6	294.7	306.5
45°	11917.5	3288.8	398.4	257.0	209.8	160.3	155.6	183.9	202.7	242.8	252.3
47.5°	12127.3	2991.7	353.6	209.8	162.6	129.7	129.7	136.8	155.6	202.7	212.2
50°	12056.6	2753.7	306.5	155.6	113.1	99.0	99.0	96.7	124.9	162.6	169.7
52.5°	11915.1	2616.9	264.0	120.2	77.8	70.7	63.6	70.7	87.3	103.7	106.1
55°	11894.0	2593.3	221.6	96.7	54.2	47.2	35.4	35.4	35.4	33.0	28.3
57.5°	12059.0	2631.0	186.3	77.8	40.1	30.7	18.8	0.0	0.0	0.0	0.0
60°	12228.7	2671.1	160.3	54.2	28.3	16.5	2.4	0.0	0.0	0.0	0.0
62.5°	11945.8	2581.5	134.4	33.0	21.2	7.1	0.0	0.0	0.0	0.0	0.0
65°	10493.5	2197.3	106.1	23.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7464.1	1471.1	70.7	14.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3406.6	615.3	44.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	728.4	191.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	148.5	139.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	47.2	219.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.3	157.9	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)