

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: P193468

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193468
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-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 31797 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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

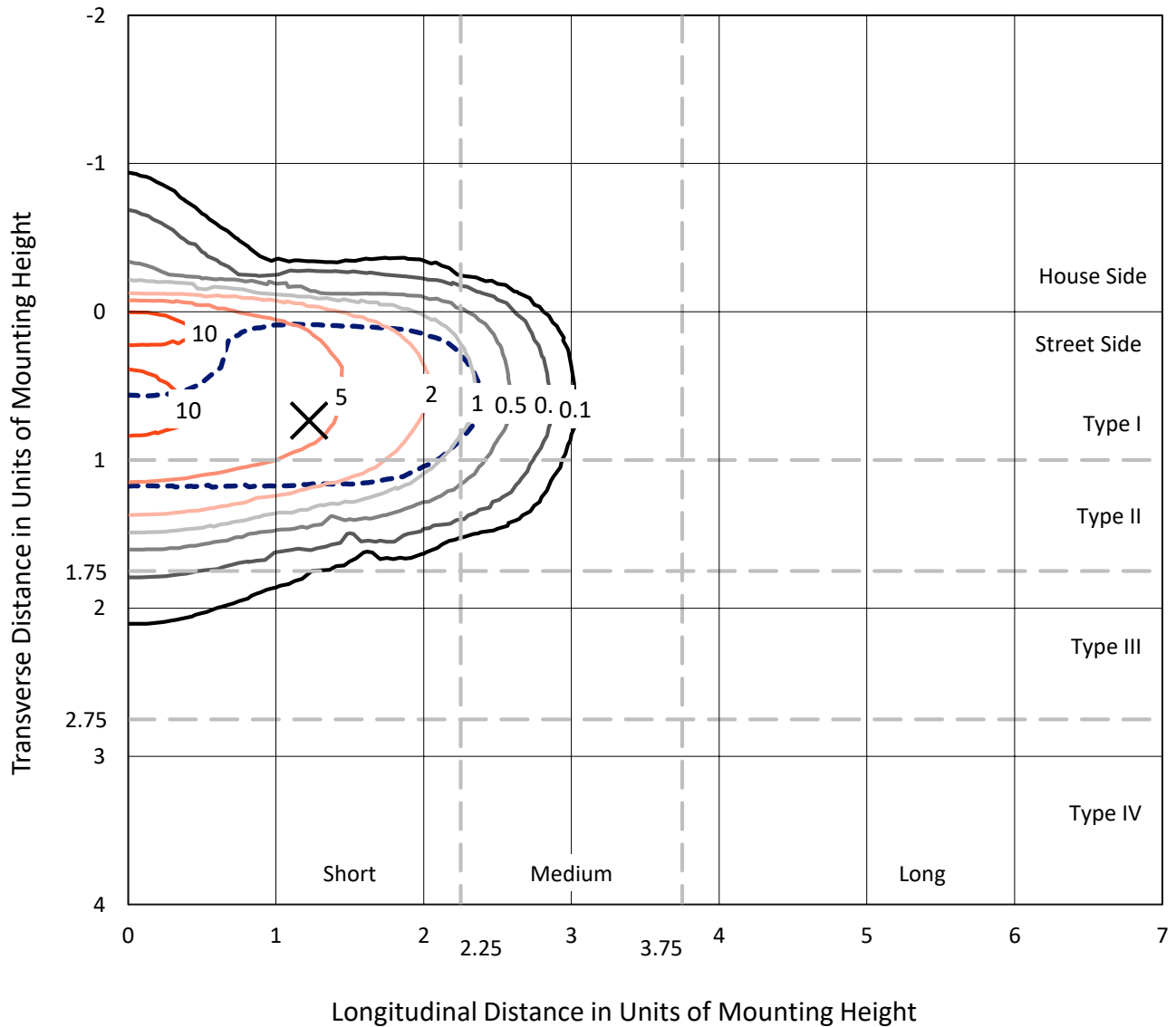


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

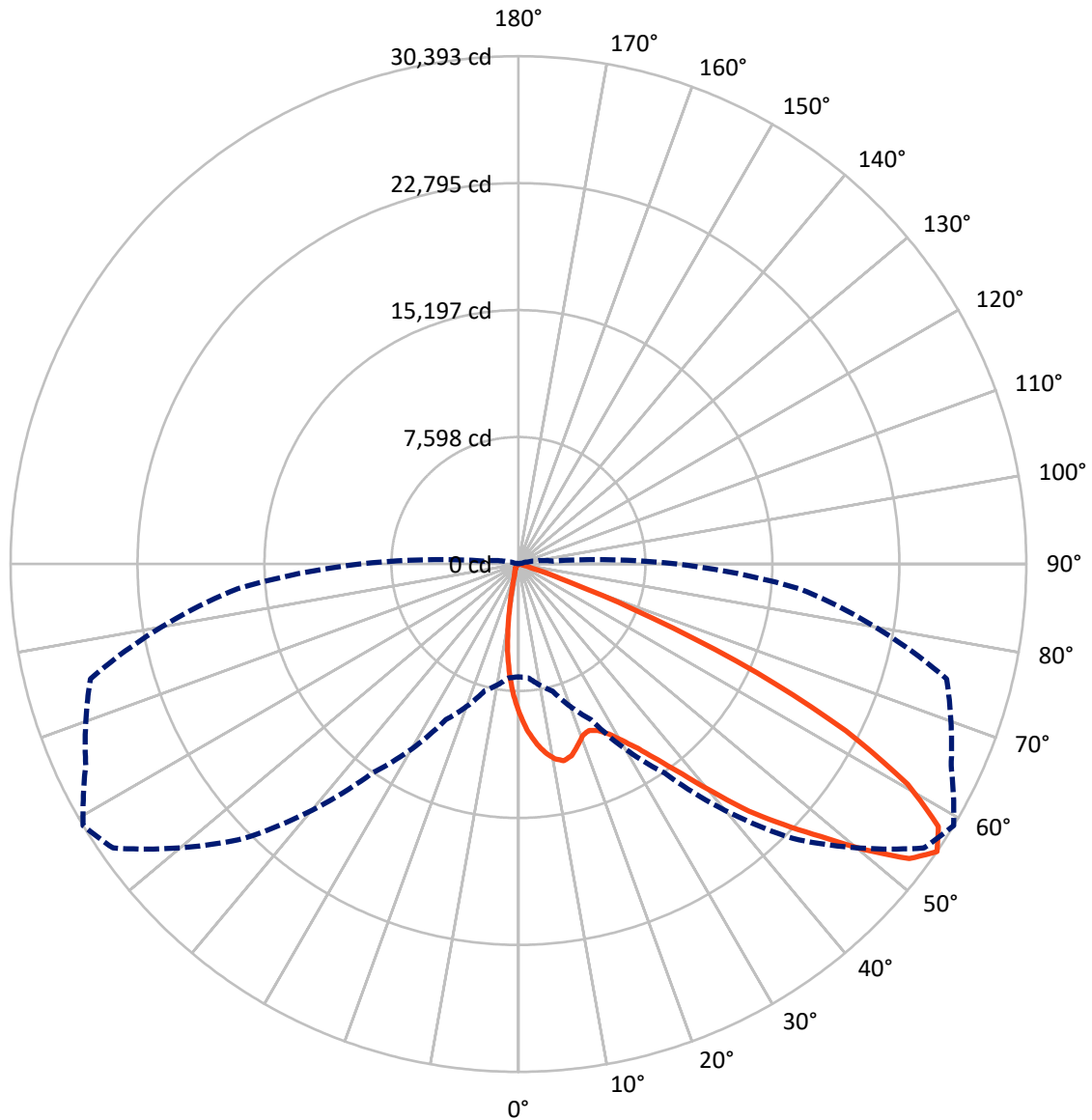


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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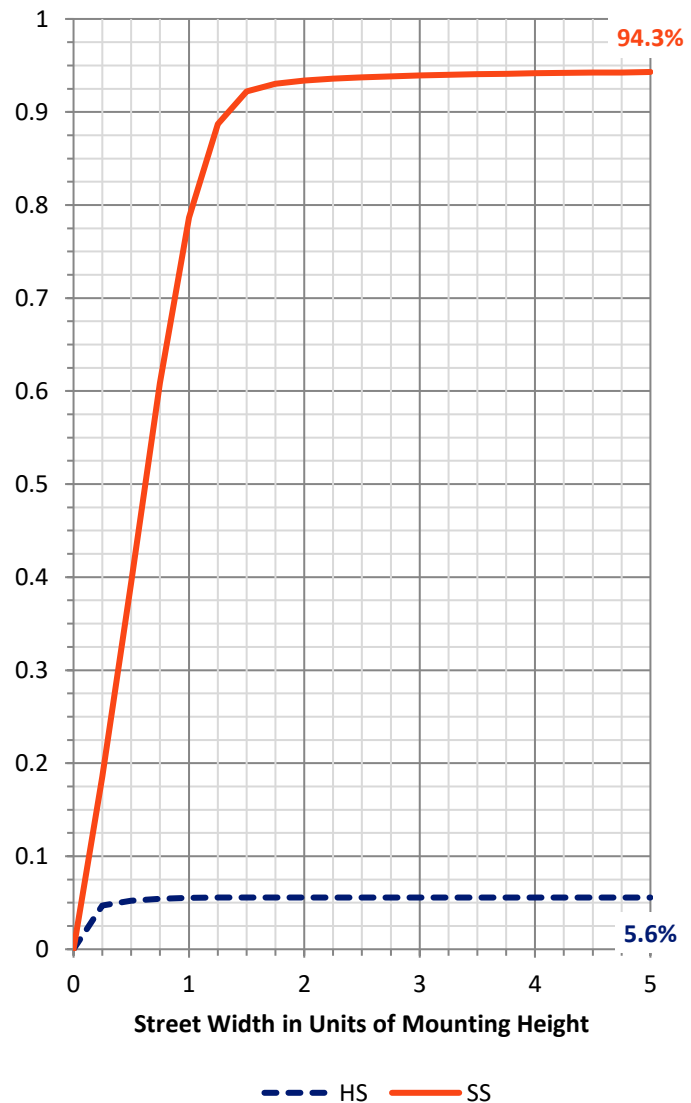
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.0	0.0	1776.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30021.0	0.0	30021.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	31797.0	0.0	31797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.7	2.4
10°-20°	1795.0	5.6
20°-30°	3054.5	9.6
30°-40°	5253.0	16.5
40°-50°	8110.1	25.5
50°-60°	8153.2	25.6
60°-70°	4181.0	13.1
70°-80°	453.1	1.4
80°-90°	47.4	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°	31797.0	100.0
0°-180°	31797.0	100.0

Coefficient of Utilization



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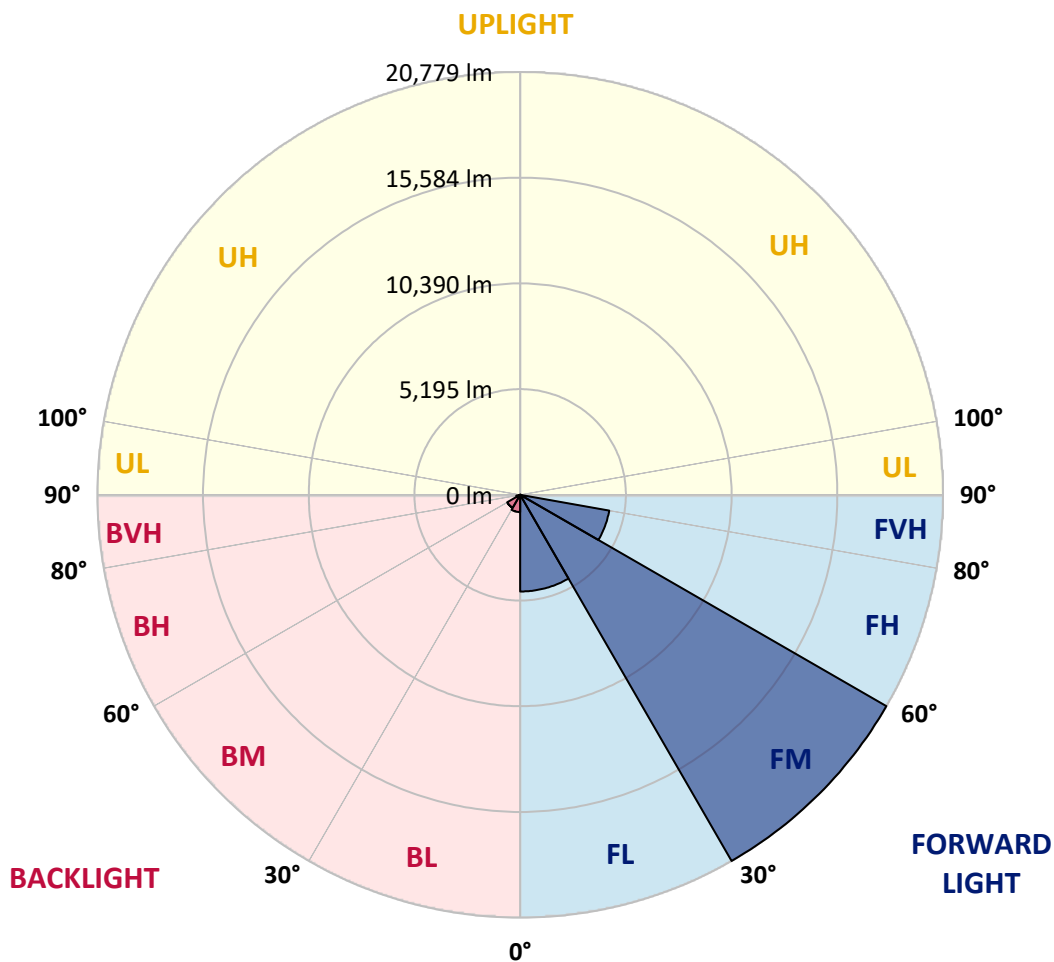
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4751.5	14.9			
FM (30°-60°)	20779.2	65.3			
FH (60°-80°)	4443.9	14.0			G2/5000
FVH (80°-90°)	46.4	0.1			G1/100
BL (0°-30°)	847.7	2.7	B2/1000		
BM (30°-60°)	737.1	2.3	B1/1000		
BH (60°-80°)	190.3	0.6	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7
2.5°	10590.8	10478.2	10444.4	10421.9	10318.7	10189.2	10012.8	9930.3	9761.4	9489.3	9155.3
5°	11560.9	11540.3	11465.2	11423.9	11313.2	11129.3	10847.8	10712.7	10444.4	9986.5	9388.0
7.5°	11136.8	11266.3	11369.5	11542.1	11759.8	11752.3	11515.9	11375.1	11074.9	10470.7	9646.9
10°	9498.7	9603.8	9772.6	10164.8	10964.2	11669.7	11947.5	11846.1	11605.9	10915.4	9896.5
12.5°	9177.8	9166.5	9196.6	9311.0	9729.5	10735.3	11874.3	12078.8	12030.0	11322.6	10132.9
15°	9348.6	9335.4	9331.7	9371.1	9472.4	9896.5	11324.5	11911.8	12289.0	11699.8	10333.7
17.5°	9827.1	9770.8	9740.7	9708.8	9678.8	9783.9	10664.0	11444.6	12328.4	12030.0	10500.7
20°	10647.1	10553.2	10442.5	10262.4	10093.5	10041.0	10386.2	10964.2	12187.6	12281.5	10609.5
22.5°	11677.2	11557.2	11365.8	11037.4	10694.0	10495.1	10523.2	10812.2	11977.5	12555.4	10660.2
25°	12835.0	12681.2	12426.0	11970.0	11465.2	11112.4	10928.5	11029.9	11881.8	12876.3	10718.4
27.5°	14075.4	13904.6	13570.6	12949.5	12377.2	11900.5	11525.3	11512.1	12045.0	13296.6	10812.2
30°	15304.5	15278.2	14842.8	14186.1	13428.0	12848.2	12307.7	12238.3	12501.0	13878.3	10998.0
32.5°	16944.5	16747.5	16214.5	15539.0	14664.6	13968.4	13328.5	13167.2	13200.9	14555.7	11285.1
35°	19012.3	18796.6	18046.0	17113.4	16135.7	15313.8	14606.4	14386.9	14304.3	15664.7	11769.2
37.5°	20348.4	20344.6	19873.6	18924.2	17875.2	16968.9	16199.5	15942.5	15775.4	17004.5	12519.8
40°	20384.0	20472.2	20534.2	20524.8	19777.9	18942.9	18259.9	17942.8	17554.3	18794.7	13489.9
42.5°	19290.1	19517.1	20063.2	20990.1	21433.0	21100.9	20524.8	20213.3	19635.3	20710.6	14672.1
45°	17811.4	17969.0	18924.2	20631.7	22329.9	23240.0	22800.9	22243.6	21481.8	22709.0	15732.3
47.5°	17149.0	17177.2	17794.5	19669.1	22397.5	24992.6	25259.1	24352.8	23159.3	24319.0	16561.7
50°	15169.3	15220.0	16071.9	18000.9	21605.6	25820.2	27728.5	26869.1	24988.9	25559.3	16863.8
52.5°	11433.3	11504.6	12585.5	15259.4	19428.9	25467.4	29496.2	29287.9	26993.0	26165.4	16880.7
55°	6745.9	6839.7	7871.8	10271.8	15281.9	23223.1	29627.5	30393.1	28574.8	26523.8	16854.4
57.5°	3150.6	3216.3	3807.3	5291.6	9504.3	18353.7	27649.7	29635.0	29447.4	26713.4	17040.2
60°	1673.8	1692.6	1835.2	2291.2	4295.2	11637.8	23789.8	26760.3	28651.8	26976.1	17267.2
62.5°	1279.7	1285.4	1277.9	1332.3	1805.2	5165.9	17982.2	21999.7	25448.6	26779.0	17015.8
65°	1109.0	1118.4	1065.8	1052.7	1157.8	1842.7	10682.7	15681.6	19997.5	24120.1	15302.6
67.5°	994.5	998.3	934.5	880.1	898.8	996.4	4214.5	8584.8	13236.6	17680.1	11091.8
70°	915.7	912.0	842.5	756.2	731.8	681.2	1339.8	3146.8	6325.6	8965.8	5158.4
72.5°	810.6	812.5	778.7	666.1	608.0	476.6	621.1	917.6	1887.7	2443.2	1208.4
75°	718.7	709.3	668.0	596.7	501.0	313.4	307.7	409.1	581.7	578.0	260.8
77.5°	519.8	510.4	523.5	489.8	384.7	202.7	153.9	197.0	236.4	228.9	73.2
80°	380.9	375.3	337.8	407.2	339.6	138.9	95.7	105.1	122.0	103.2	22.5
82.5°	260.8	259.0	238.3	225.2	193.3	84.4	60.0	65.7	78.8	58.2	11.3
85°	41.3	46.9	172.6	137.0	114.5	37.5	41.3	45.0	52.5	31.9	3.8
87.5°	0.0	0.0	80.7	71.3	22.5	15.0	24.4	26.3	26.3	16.9	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°	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7	8950.7
2.5°	8984.5	8796.9	8449.7	8091.3	7759.2	7363.3	7091.2	6886.6	6650.2	6586.4	6725.3
5°	9046.4	8691.8	7945.0	7132.4	6368.7	5522.4	4875.1	4362.8	3899.3	3741.7	3884.3
7.5°	9144.0	8616.7	7398.9	6061.0	4732.4	3411.4	2507.0	1912.1	1533.1	1420.5	1480.5
10°	9241.6	8507.9	6766.5	4792.5	2976.1	1660.7	1080.8	863.2	782.5	765.6	775.0
12.5°	9322.3	8361.5	5995.3	3407.7	1591.2	889.4	707.4	671.8	660.5	660.5	664.3
15°	9371.1	8140.1	5081.5	2167.3	915.7	671.8	617.4	606.1	606.1	608.0	611.7
17.5°	9365.4	7858.6	4081.3	1311.6	684.9	594.8	562.9	553.6	551.7	555.4	557.3
20°	9296.0	7490.9	3077.4	865.1	596.7	542.3	510.4	493.5	491.6	495.4	499.1
22.5°	9164.7	7036.7	2201.1	666.1	538.5	491.6	452.2	437.2	437.2	441.0	444.7
25°	9005.2	6481.3	1504.9	564.8	486.0	437.2	399.7	386.6	390.3	399.7	401.6
27.5°	8806.3	5856.4	1022.7	484.1	422.2	382.8	354.7	345.3	354.7	367.8	371.5
30°	8635.5	5205.3	729.9	418.5	358.4	330.3	313.4	313.4	326.5	350.9	356.5
32.5°	8504.1	4574.8	562.9	369.7	311.5	287.1	277.7	287.1	307.7	332.1	337.8
35°	8487.3	4055.0	476.6	330.3	277.7	253.3	249.6	266.5	287.1	305.9	309.6
37.5°	8616.7	3574.7	429.7	298.4	247.7	225.2	221.4	242.1	262.7	285.2	290.9
40°	8862.5	3197.5	395.9	268.3	223.3	198.9	191.4	206.4	234.6	264.6	272.1
42.5°	9181.5	2886.0	358.4	238.3	198.9	165.1	155.7	172.6	202.7	234.6	243.9
45°	9485.5	2617.7	317.1	204.5	167.0	127.6	123.8	146.4	161.4	193.3	200.8
47.5°	9652.5	2381.2	281.5	167.0	129.5	103.2	103.2	108.8	123.8	161.4	168.9
50°	9596.2	2191.7	243.9	123.8	90.1	78.8	78.8	76.9	99.5	129.5	135.1
52.5°	9483.7	2082.9	210.2	95.7	61.9	56.3	50.7	56.3	69.4	82.6	84.4
55°	9466.8	2064.1	176.4	76.9	43.2	37.5	28.1	28.1	28.1	26.3	22.5
57.5°	9598.1	2094.1	148.2	61.9	31.9	24.4	15.0	0.0	0.0	0.0	0.0
60°	9733.2	2126.0	127.6	43.2	22.5	13.1	1.9	0.0	0.0	0.0	0.0
62.5°	9508.1	2054.7	107.0	26.3	16.9	5.6	0.0	0.0	0.0	0.0	0.0
65°	8352.1	1748.9	84.4	18.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5940.9	1170.9	56.3	11.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2711.5	489.8	35.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	579.8	152.0	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	118.2	110.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.5	174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.5	125.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	18.8	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)