

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: P191744

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191744
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-06-LED-E1-AFL-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 31970 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 382
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

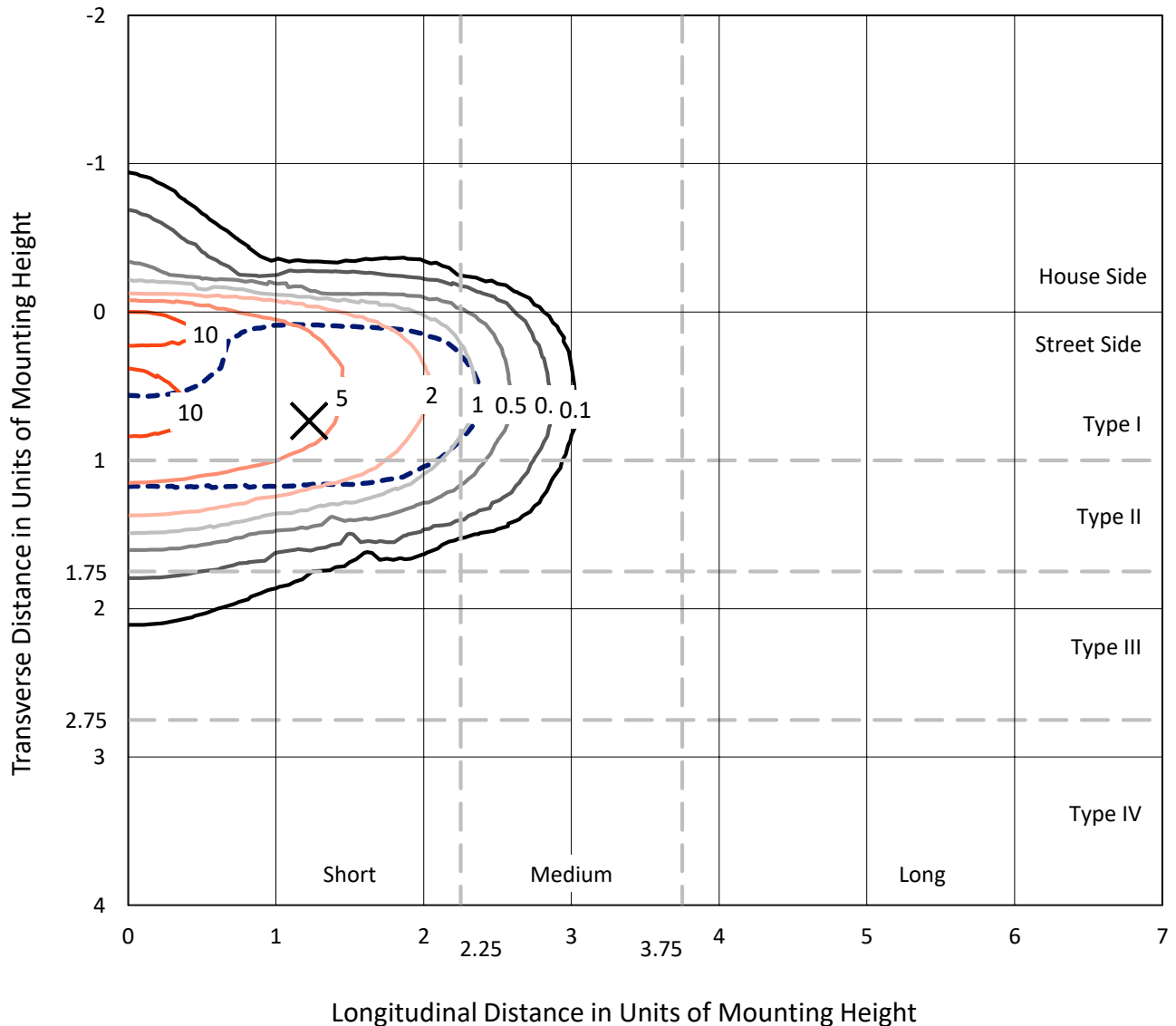


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

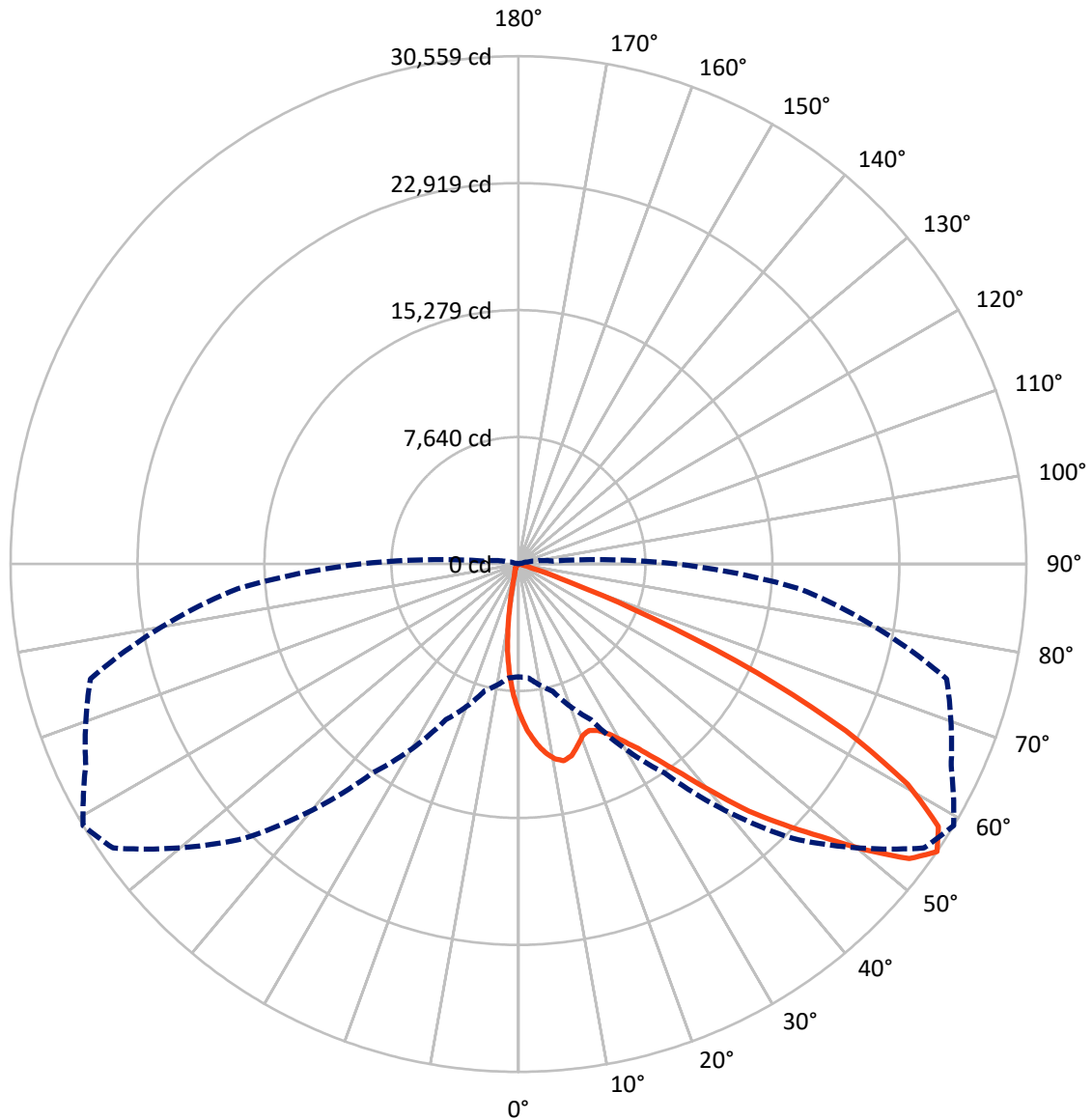


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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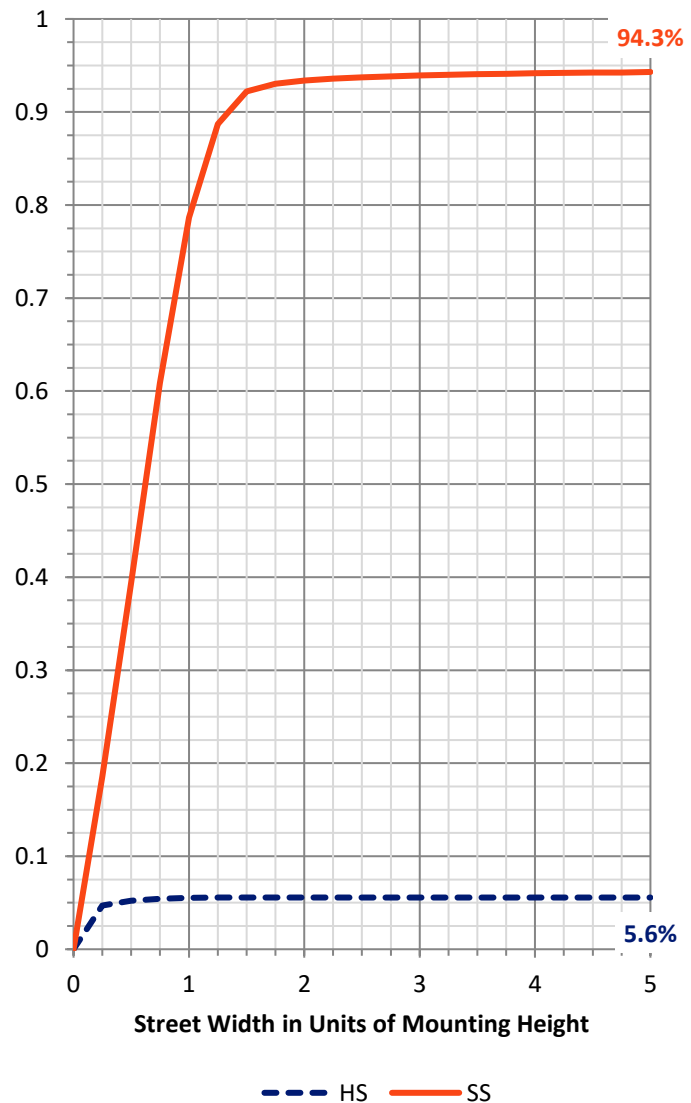
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.7	0.0	1785.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30184.3	0.0	30184.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	31970.0	0.0	31970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.8	2.4
10°-20°	1804.8	5.6
20°-30°	3071.1	9.6
30°-40°	5281.6	16.5
40°-50°	8154.2	25.5
50°-60°	8197.6	25.6
60°-70°	4203.8	13.1
70°-80°	455.6	1.4
80°-90°	47.6	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°	31970.0	100.0
0°-180°	31970.0	100.0



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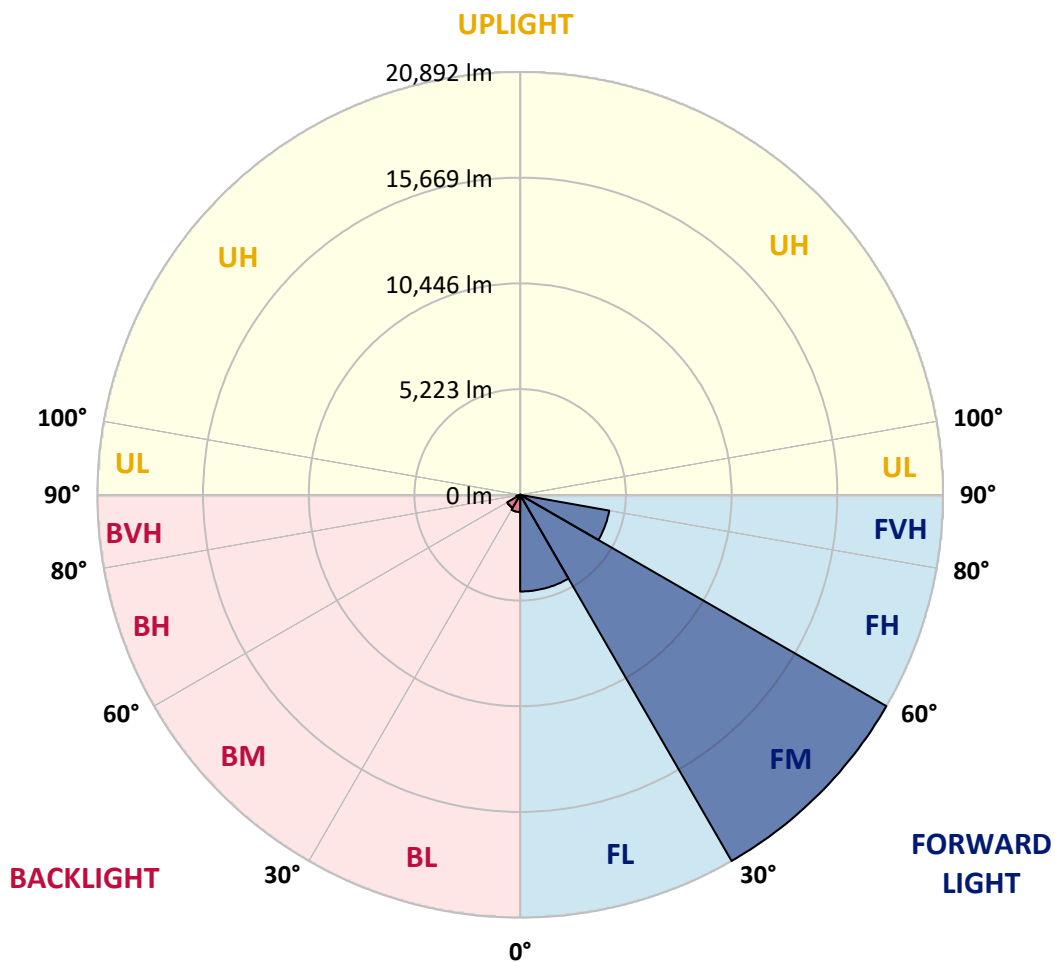
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4777.4	14.9			
FM (30°-60°)	20892.3	65.3			
FH (60°-80°)	4468.0	14.0			G2/5000
FVH (80°-90°)	46.6	0.1			G1/100
BL (0°-30°)	852.3	2.7	B2/1000		
BM (30°-60°)	741.1	2.3	B1/1000		
BH (60°-80°)	191.3	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°	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4
2.5°	10648.4	10535.2	10501.2	10478.6	10374.8	10244.6	10067.3	9984.3	9814.5	9540.9	9205.1
5°	11623.8	11603.1	11527.6	11486.1	11374.8	11189.9	10906.9	10771.0	10501.2	10040.9	9439.0
7.5°	11197.4	11327.6	11431.4	11604.9	11823.8	11816.2	11578.5	11437.0	11135.2	10527.6	9699.4
10°	9550.3	9656.0	9825.8	10220.1	11023.8	11733.2	12012.5	11910.6	11669.1	10974.8	9950.3
12.5°	9227.7	9216.4	9246.6	9361.7	9782.4	10793.7	11938.9	12144.5	12095.5	11384.2	10188.0
15°	9399.4	9386.2	9382.4	9422.1	9523.9	9950.3	11386.1	11976.6	12355.8	11763.4	10389.9
17.5°	9880.5	9823.9	9793.7	9761.7	9731.5	9837.1	10722.0	11506.8	12395.5	12095.5	10557.8
20°	10705.0	10610.7	10499.3	10318.2	10148.4	10095.6	10442.7	11023.8	12254.0	12348.3	10667.3
22.5°	11740.8	11620.0	11427.6	11097.4	10752.2	10552.2	10580.5	10871.0	12042.6	12623.7	10718.2
25°	12904.9	12750.1	12493.6	12035.1	11527.6	11172.9	10988.0	11089.9	11946.4	12946.4	10776.7
27.5°	14151.9	13980.3	13644.4	13019.9	12444.5	11965.3	11588.0	11574.8	12110.6	13369.0	10871.0
30°	15387.7	15361.3	14923.6	14263.3	13501.0	12918.1	12374.7	12304.9	12569.0	13953.8	11057.8
32.5°	17036.7	16838.6	16302.8	15623.6	14744.4	14044.4	13401.1	13238.8	13272.8	14634.9	11346.5
35°	19115.8	18898.8	18144.2	17206.5	16223.5	15397.2	14685.9	14465.1	14382.1	15750.0	11833.2
37.5°	20459.1	20455.3	19981.8	19027.1	17972.5	17061.2	16287.7	16029.2	15861.3	17097.0	12587.9
40°	20495.0	20583.6	20645.9	20636.5	19885.6	19046.0	18359.2	18040.4	17649.8	18896.9	13563.3
42.5°	19395.0	19623.3	20172.3	21104.3	21549.6	21215.7	20636.5	20323.3	19742.2	20823.2	14751.9
45°	17908.3	18066.8	19027.1	20744.0	22451.4	23366.5	22925.0	22364.6	21598.7	22832.5	15817.9
47.5°	17242.3	17270.6	17891.3	19776.1	22519.4	25128.6	25396.5	24485.3	23285.3	24451.3	16651.8
50°	15251.9	15302.8	16159.4	18098.9	21723.2	25960.6	27879.4	27015.3	25124.9	25698.4	16955.5
52.5°	11495.5	11567.2	12653.9	15342.4	19534.6	25606.0	29656.6	29447.2	27139.8	26307.8	16972.5
55°	6782.6	6876.9	7914.6	10327.7	15365.1	23349.5	29788.7	30558.5	28730.3	26668.2	16946.1
57.5°	3167.7	3233.8	3828.1	5320.4	9556.0	18453.6	27800.2	29796.3	29607.6	26858.7	17132.9
60°	1682.9	1701.8	1845.2	2303.6	4318.6	11701.2	23919.3	26905.9	28807.6	27122.8	17361.2
62.5°	1286.7	1292.4	1284.8	1339.5	1815.0	5194.0	18080.0	22119.4	25587.1	26924.7	17108.4
65°	1115.0	1124.5	1071.6	1058.4	1164.1	1852.7	10740.8	15766.9	20106.3	24251.3	15385.8
67.5°	999.9	1003.7	939.6	884.9	903.7	1001.8	4237.5	8631.5	13308.6	17776.3	11152.1
70°	920.7	916.9	847.1	760.3	735.8	684.9	1347.1	3164.0	6360.0	9014.5	5186.5
72.5°	815.0	816.9	783.0	669.8	611.3	479.2	624.5	922.6	1898.0	2456.5	1215.0
75°	722.6	713.2	671.7	600.0	503.7	315.1	309.4	411.3	584.9	581.1	262.2
77.5°	522.6	513.2	526.4	492.4	386.8	203.8	154.7	198.1	237.7	230.2	73.6
80°	383.0	377.3	339.6	409.4	341.5	139.6	96.2	105.7	122.6	103.8	22.6
82.5°	262.2	260.4	239.6	226.4	194.3	84.9	60.4	66.0	79.2	58.5	11.3
85°	41.5	47.2	173.6	137.7	115.1	37.7	41.5	45.3	52.8	32.1	3.8
87.5°	0.0	0.0	81.1	71.7	22.6	15.1	24.5	26.4	26.4	17.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4	8999.4
2.5°	9033.4	8844.7	8495.7	8135.3	7801.4	7403.3	7129.7	6924.1	6686.4	6622.2	6761.8
5°	9095.7	8739.1	7988.2	7171.3	6403.4	5552.5	4901.6	4386.5	3920.5	3762.0	3905.4
7.5°	9193.8	8663.6	7439.2	6094.0	4758.2	3430.0	2520.6	1922.5	1541.4	1428.2	1488.6
10°	9291.9	8554.2	6803.3	4818.6	2992.3	1669.7	1086.7	867.9	786.7	769.8	779.2
12.5°	9373.0	8407.0	6027.9	3426.2	1599.9	894.3	711.3	675.4	664.1	664.1	667.9
15°	9422.1	8184.4	5109.1	2179.1	920.7	675.4	620.7	609.4	609.4	611.3	615.1
17.5°	9416.4	7901.4	4103.5	1318.8	688.6	598.1	566.0	556.6	554.7	558.5	560.3
20°	9346.6	7531.6	3094.1	869.8	600.0	545.2	513.2	496.2	494.3	498.1	501.9
22.5°	9214.5	7075.0	2213.1	669.8	541.5	494.3	454.7	439.6	439.6	443.4	447.1
25°	9054.2	6516.6	1513.1	567.9	488.6	439.6	401.9	388.7	392.4	401.9	403.7
27.5°	8854.2	5888.3	1028.2	486.8	424.5	384.9	356.6	347.1	356.6	369.8	373.6
30°	8682.5	5233.6	733.9	420.7	360.4	332.1	315.1	315.1	328.3	352.8	358.5
32.5°	8550.4	4599.7	566.0	371.7	313.2	288.7	279.2	288.7	309.4	333.9	339.6
35°	8533.4	4077.1	479.2	332.1	279.2	254.7	250.9	267.9	288.7	307.5	311.3
37.5°	8663.6	3594.1	432.0	300.0	249.0	226.4	222.6	243.4	264.1	286.8	292.4
40°	8910.8	3214.9	398.1	269.8	224.5	200.0	192.4	207.5	235.8	266.0	273.6
42.5°	9231.5	2901.7	360.4	239.6	200.0	166.0	156.6	173.6	203.8	235.8	245.3
45°	9537.1	2631.9	318.8	205.6	167.9	128.3	124.5	147.2	162.3	194.3	201.9
47.5°	9705.1	2394.2	283.0	167.9	130.2	103.8	103.8	109.4	124.5	162.3	169.8
50°	9648.5	2203.6	245.3	124.5	90.6	79.2	79.2	77.4	100.0	130.2	135.8
52.5°	9535.3	2094.2	211.3	96.2	62.3	56.6	50.9	56.6	69.8	83.0	84.9
55°	9518.3	2075.3	177.3	77.4	43.4	37.7	28.3	28.3	28.3	26.4	22.6
57.5°	9650.3	2105.5	149.0	62.3	32.1	24.5	15.1	0.0	0.0	0.0	0.0
60°	9786.2	2137.6	128.3	43.4	22.6	13.2	1.9	0.0	0.0	0.0	0.0
62.5°	9559.8	2065.9	107.5	26.4	17.0	5.7	0.0	0.0	0.0	0.0	0.0
65°	8397.6	1758.4	84.9	18.9	11.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5973.2	1177.3	56.6	11.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2726.2	492.4	35.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	583.0	152.8	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	118.9	111.3	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.7	175.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.6	126.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	18.9	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)