

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: P190915

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190915  
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-07-LED-E1-AFL-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 23229.2 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

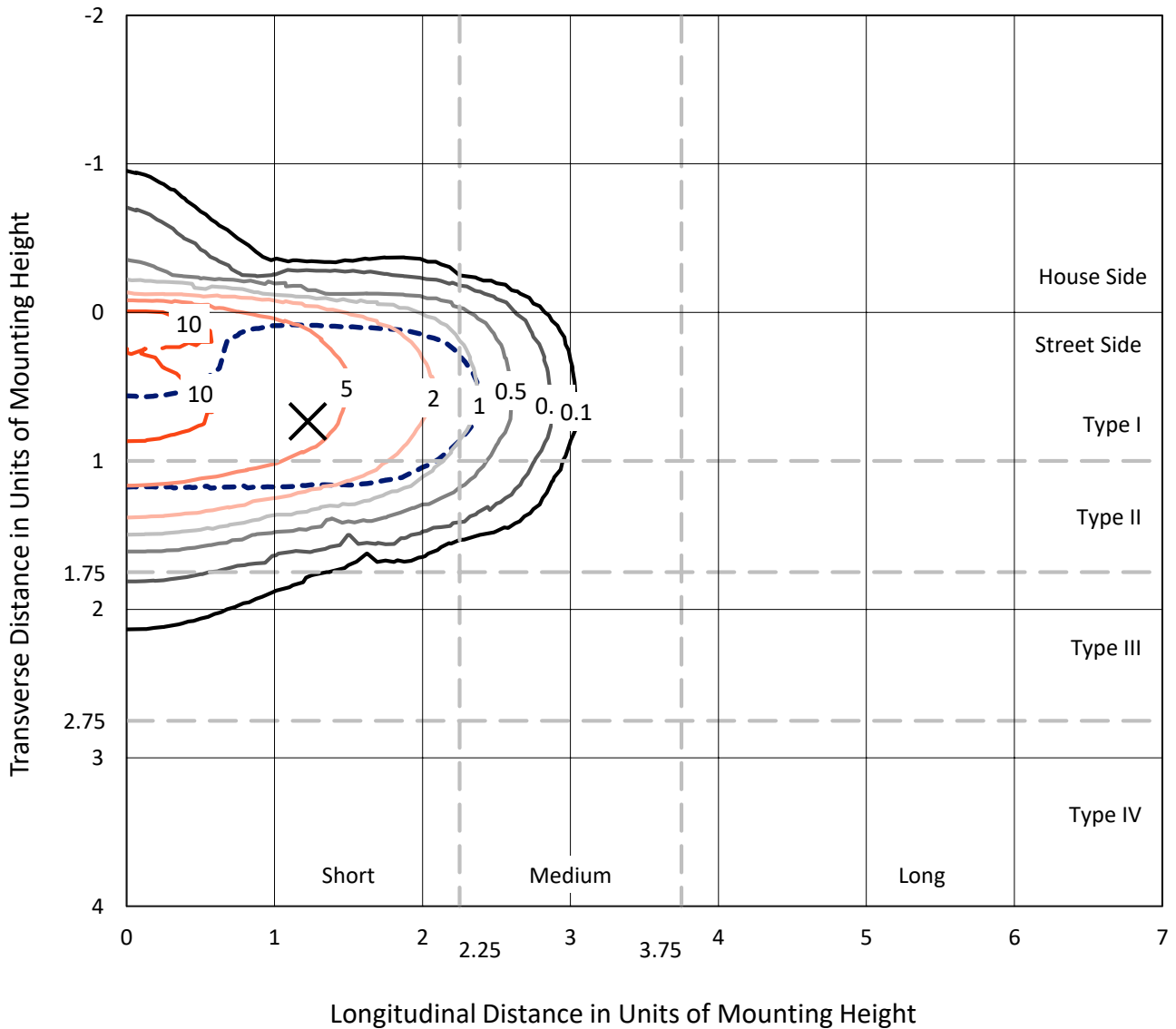
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

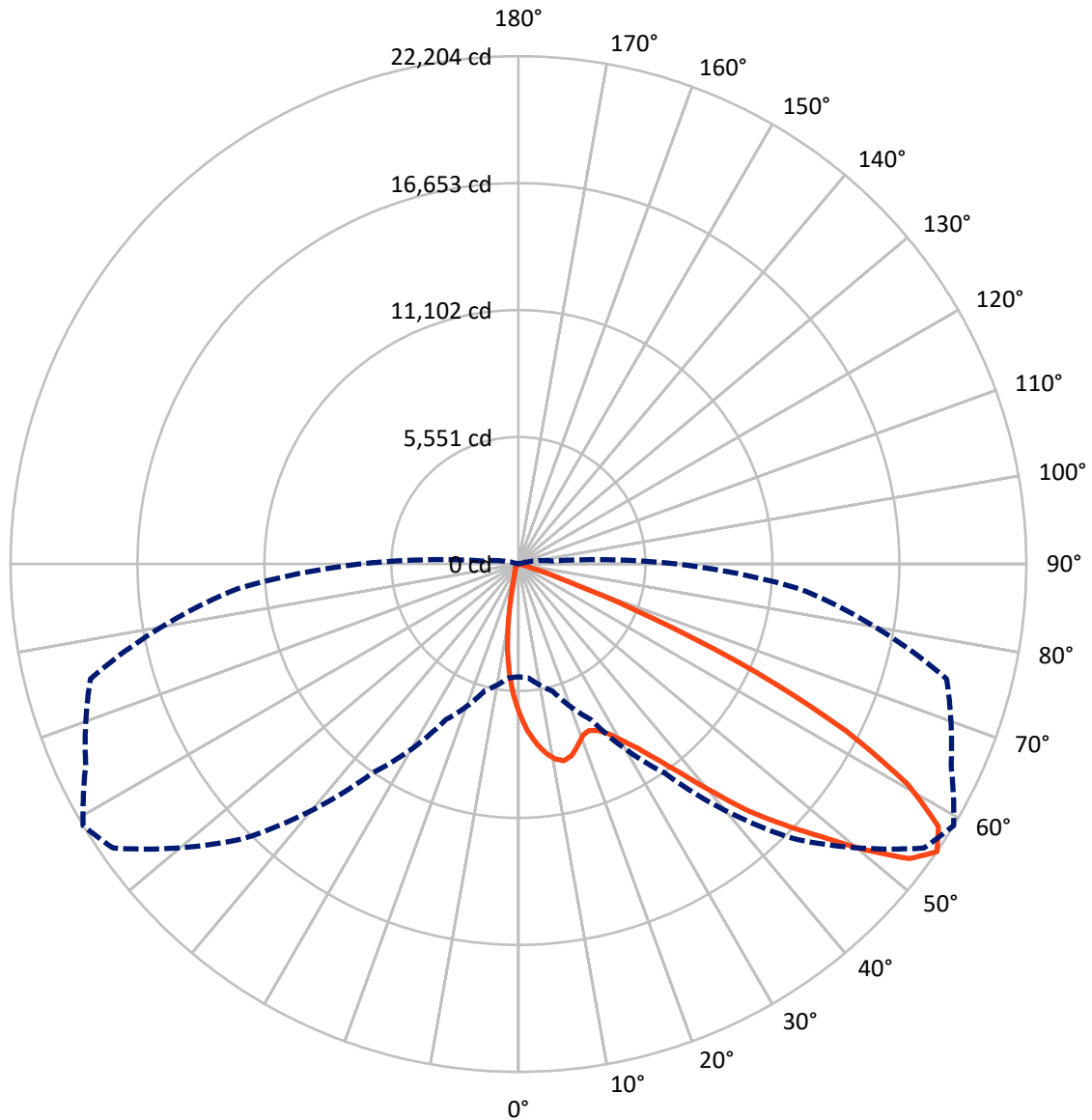
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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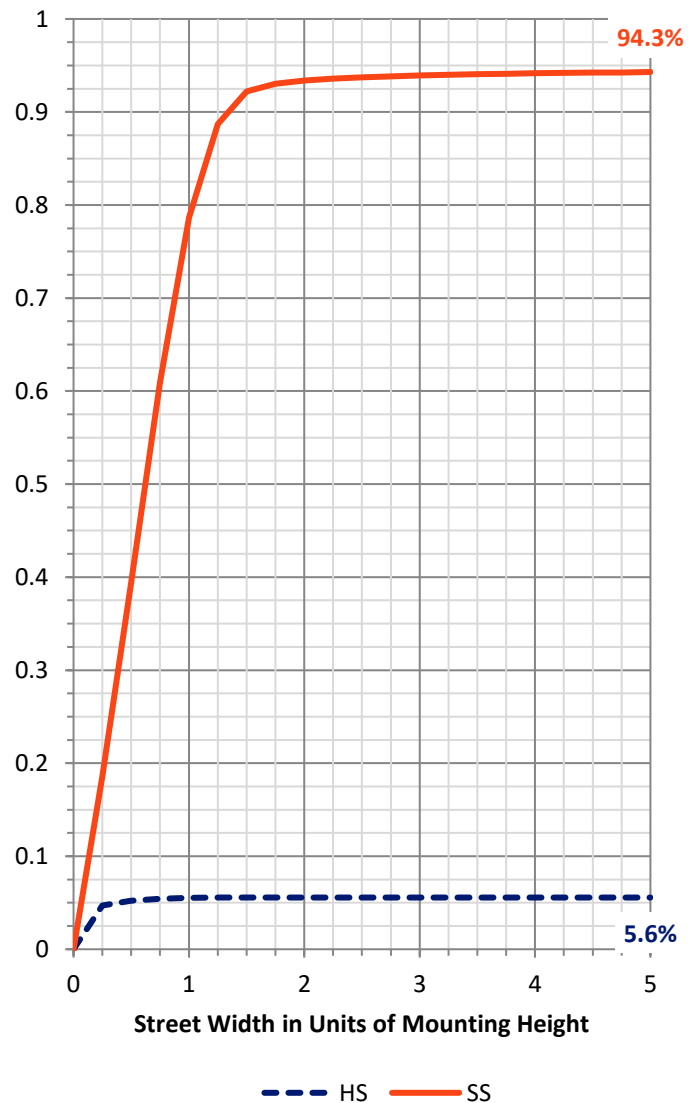
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1297.5	0.0	1297.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	21931.7	0.0	21931.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	23229.2	0.0	23229.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.7	2.4
10°-20°	1311.4	5.6
20°-30°	2231.4	9.6
30°-40°	3837.6	16.5
40°-50°	5924.8	25.5
50°-60°	5956.3	25.6
60°-70°	3054.4	13.1
70°-80°	331.0	1.4
80°-90°	34.6	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°	23229.2	100.0
0°-180°	23229.2	100.0

**Coefficient of Utilization**



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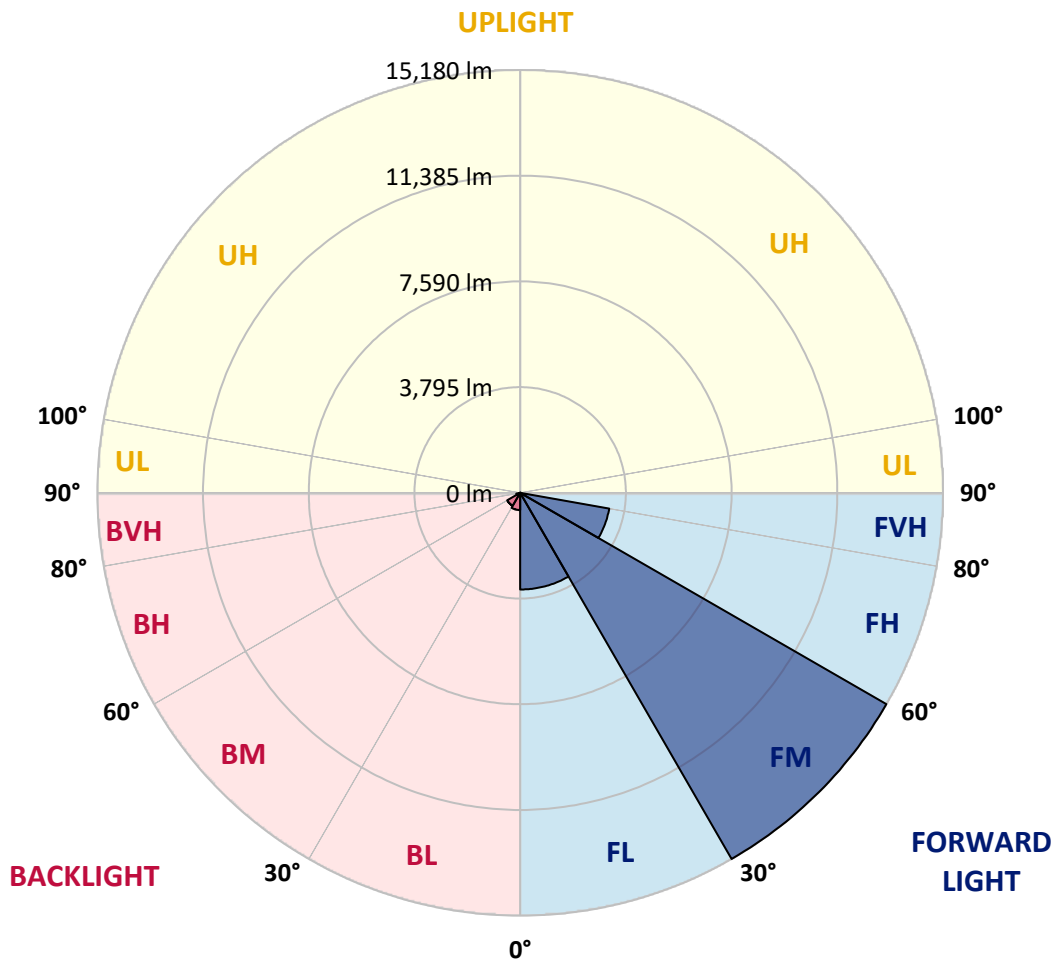
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3471.2	14.9			
FM	(30°-60°)	15180.2	65.3			
FH	(60°-80°)	3246.4	14.0			G2/5000
FVH	(80°-90°)	33.9	0.1			G1/100
BL	(0°-30°)	619.3	2.7	B2/1000		
BM	(30°-60°)	538.5	2.3	B1/1000		
BH	(60°-80°)	139.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9
2.5°	7737.1	7654.8	7630.1	7613.6	7538.2	7443.7	7314.8	7254.5	7131.1	6932.3	6688.4
5°	8445.8	8430.6	8375.8	8345.7	8264.8	8130.5	7924.8	7826.2	7630.1	7295.6	6858.4
7.5°	8135.9	8230.6	8306.0	8432.1	8591.0	8585.6	8412.8	8310.0	8090.7	7649.3	7047.5
10°	6939.2	7016.0	7139.4	7425.9	8009.8	8525.3	8728.1	8654.2	8478.6	7974.2	7229.8
12.5°	6704.8	6696.5	6718.5	6802.1	7107.9	7842.6	8674.7	8824.1	8788.5	8271.7	7402.6
15°	6829.5	6819.9	6817.3	6846.0	6920.1	7229.8	8273.0	8702.1	8977.6	8547.2	7549.3
17.5°	7179.1	7137.9	7116.1	7092.7	7070.8	7147.6	7790.5	8360.8	9006.5	8788.5	7671.2
20°	7778.2	7709.7	7628.8	7497.1	7373.7	7335.4	7587.6	8009.8	8903.7	8972.2	7750.8
22.5°	8530.8	8443.0	8303.2	8063.3	7812.5	7667.1	7687.7	7898.8	8750.1	9172.3	7787.7
25°	9376.6	9264.1	9077.8	8744.6	8375.8	8118.1	7983.8	8057.8	8680.1	9406.7	7830.3
27.5°	10282.7	10158.0	9913.9	9460.1	9042.1	8693.9	8419.7	8410.1	8799.4	9713.8	7898.8
30°	11180.6	11161.4	10843.4	10363.6	9809.8	9386.2	8991.3	8940.7	9132.6	10138.8	8034.6
32.5°	12378.7	12234.8	11845.5	11352.0	10713.2	10204.5	9737.1	9619.2	9643.9	10633.7	8244.3
35°	13889.4	13731.8	13183.4	12502.1	11787.9	11187.5	10670.6	10510.3	10450.0	11443.9	8597.9
37.5°	14865.4	14862.7	14518.6	13825.0	13058.7	12396.5	11834.5	11646.7	11524.7	12422.6	9146.3
40°	14891.5	14956.0	15001.2	14994.3	14448.7	13838.7	13339.7	13108.0	12824.2	13730.4	9855.0
42.5°	14092.3	14258.2	14657.0	15334.2	15657.8	15415.2	14994.3	14766.7	14344.5	15130.1	10718.6
45°	13012.0	13127.2	13825.0	15072.5	16313.0	16977.9	16657.1	16250.0	15693.4	16589.9	11493.2
47.5°	12528.2	12548.7	12999.8	14369.2	16362.4	18258.2	18452.9	17790.9	16919.0	17766.1	12099.1
50°	11081.9	11119.0	11741.3	13150.5	15783.9	18862.8	20257.0	19629.1	18255.6	18672.2	12319.8
52.5°	8352.6	8404.7	9194.3	11147.7	14193.7	18605.1	21548.3	21396.1	19719.6	19115.1	12332.1
55°	4928.2	4996.7	5750.7	7504.0	11164.2	16965.5	21644.3	22203.6	20875.3	19376.8	12313.0
57.5°	2301.6	2349.6	2781.4	3865.7	6943.3	13408.2	20199.4	21649.7	21512.7	19515.3	12448.6
60°	1222.8	1236.5	1340.7	1673.8	3137.9	8501.9	17379.5	19549.6	20931.4	19707.2	12614.5
62.5°	934.9	939.1	933.5	973.3	1318.8	3774.0	13136.8	16071.8	18591.4	19563.3	12430.8
65°	810.2	817.0	778.7	769.1	845.8	1346.2	7804.2	11456.1	14609.1	17620.8	11179.2
67.5°	726.5	729.3	682.7	642.9	656.6	727.9	3078.9	6271.6	9670.0	12916.1	8103.1
70°	669.0	666.2	615.5	552.5	534.6	497.7	978.8	2298.9	4621.1	6549.9	3768.4
72.5°	592.2	593.6	568.9	486.6	444.2	348.2	453.8	670.3	1379.0	1784.8	882.8
75°	525.1	518.2	488.0	435.9	366.0	228.9	224.8	298.8	424.9	422.2	190.6
77.5°	379.7	372.9	382.5	357.8	281.0	148.0	112.4	143.9	172.8	167.3	53.5
80°	278.2	274.2	246.7	297.5	248.2	101.5	69.9	76.7	89.1	75.4	16.5
82.5°	190.6	189.1	174.1	164.5	141.2	61.7	43.9	48.0	57.6	42.5	8.2
85°	30.2	34.3	126.1	100.0	83.6	27.4	30.2	32.9	38.4	23.3	2.8
87.5°	0.0	0.0	58.9	52.1	16.5	10.9	17.8	19.2	19.2	12.4	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°	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9	6538.9
2.5°	6563.6	6426.5	6172.9	5911.1	5668.5	5379.2	5180.4	5031.0	4858.3	4811.7	4913.1
5°	6608.9	6349.8	5804.1	5210.6	4652.7	4034.4	3561.4	3187.2	2848.6	2733.4	2837.7
7.5°	6680.1	6294.9	5405.3	4427.8	3457.3	2492.2	1831.5	1396.8	1120.0	1037.7	1081.6
10°	6751.4	6215.4	4943.3	3501.2	2174.2	1213.2	789.6	630.5	571.6	559.3	566.2
12.5°	6810.4	6108.4	4379.9	2489.5	1162.5	649.8	516.8	490.8	482.5	482.5	485.3
15°	6846.0	5946.7	3712.3	1583.3	669.0	490.8	451.0	442.7	442.7	444.2	446.9
17.5°	6841.9	5741.1	2981.6	958.2	500.3	434.5	411.2	404.4	403.0	405.8	407.1
20°	6791.2	5472.4	2248.1	632.0	435.9	396.2	372.9	360.5	359.2	361.9	364.7
22.5°	6695.2	5140.6	1608.0	486.6	393.4	359.2	330.4	319.4	319.4	322.1	324.9
25°	6578.7	4734.9	1099.5	412.7	355.1	319.4	292.0	282.4	285.1	292.0	293.4
27.5°	6433.3	4278.4	747.1	353.6	308.4	279.7	259.1	252.3	259.1	268.7	271.4
30°	6308.6	3802.7	533.3	305.7	261.9	241.3	228.9	228.9	238.6	256.4	260.4
32.5°	6212.7	3342.1	411.2	270.1	227.6	209.7	202.9	209.7	224.8	242.6	246.7
35°	6200.3	2962.4	348.2	241.3	202.9	185.1	182.3	194.7	209.7	223.4	226.2
37.5°	6294.9	2611.5	313.9	218.0	181.0	164.5	161.7	176.9	191.9	208.4	212.5
40°	6474.5	2335.9	289.3	196.0	163.2	145.3	139.8	150.8	171.3	193.3	198.8
42.5°	6707.6	2108.4	261.9	174.1	145.3	120.6	113.8	126.1	148.0	171.3	178.2
45°	6929.6	1912.3	231.7	149.5	122.0	93.2	90.4	106.9	117.8	141.2	146.7
47.5°	7051.6	1739.6	205.6	122.0	94.6	75.4	75.4	79.5	90.4	117.8	123.4
50°	7010.5	1601.1	178.2	90.4	65.8	57.6	57.6	56.2	72.6	94.6	98.7
52.5°	6928.2	1521.6	153.5	69.9	45.2	41.1	37.0	41.1	50.7	60.4	61.7
55°	6915.9	1507.9	128.9	56.2	31.5	27.4	20.6	20.6	20.6	19.2	16.5
57.5°	7011.9	1529.8	108.3	45.2	23.3	17.8	10.9	0.0	0.0	0.0	0.0
60°	7110.5	1553.1	93.2	31.5	16.5	9.6	1.3	0.0	0.0	0.0	0.0
62.5°	6946.0	1501.1	78.2	19.2	12.4	4.1	0.0	0.0	0.0	0.0	0.0
65°	6101.6	1277.7	61.7	13.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4340.1	855.4	41.1	8.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1980.8	357.8	26.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	423.6	111.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	86.3	80.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.4	127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.5	91.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	13.7	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)