

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: P190942

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190942  
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-04-LED-E1-AFL-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 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: 22057.9 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 258  
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

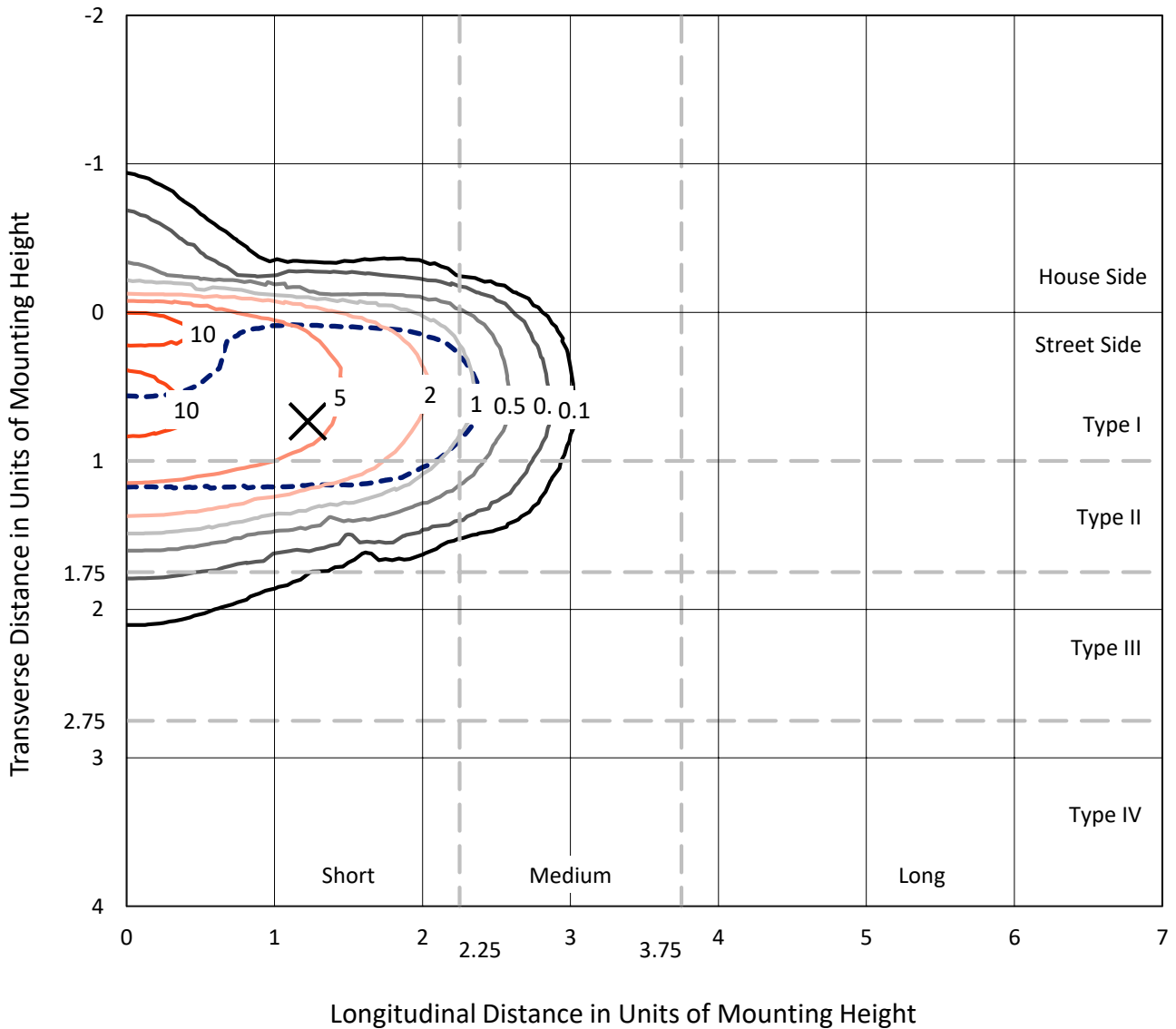


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

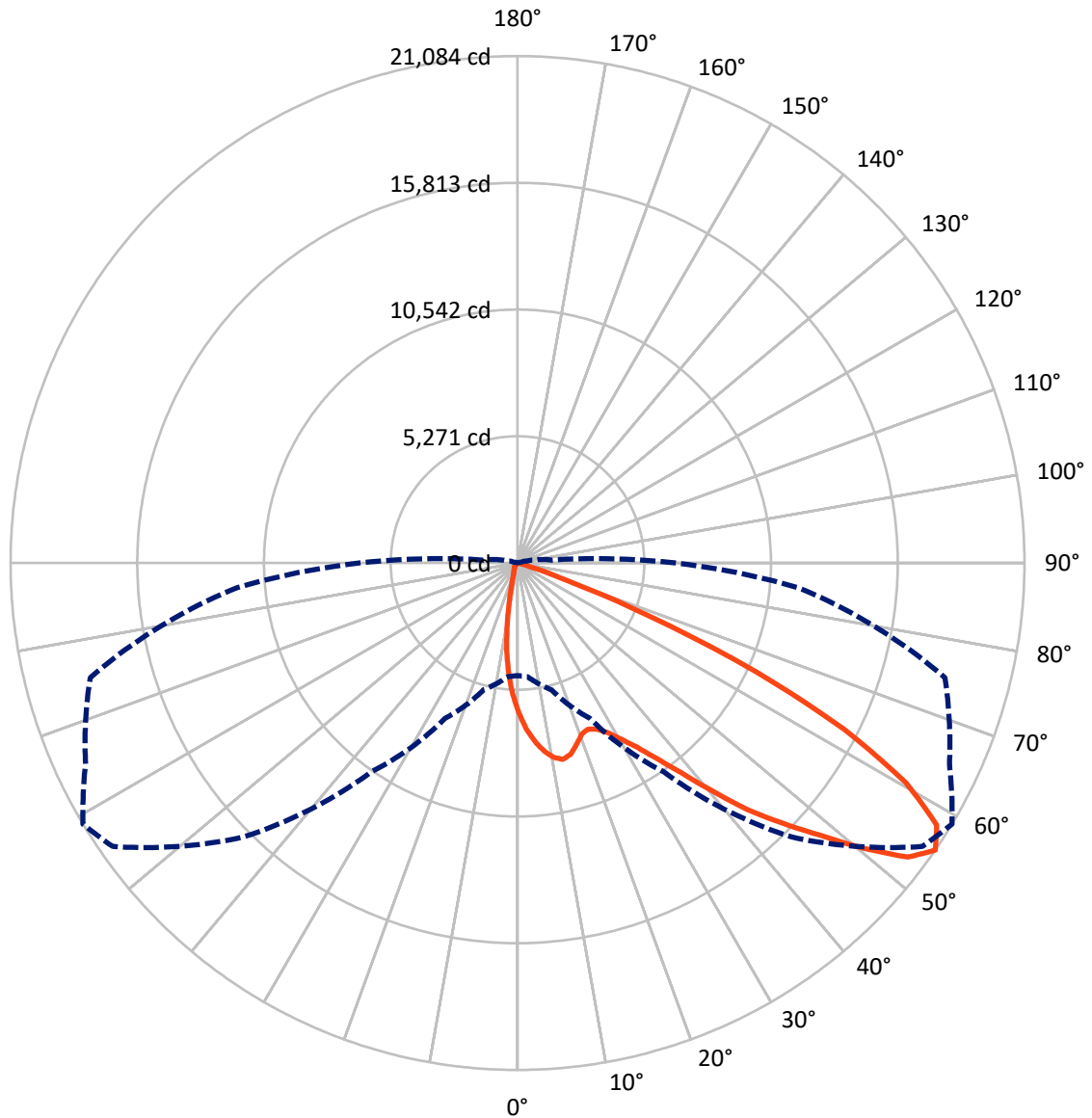


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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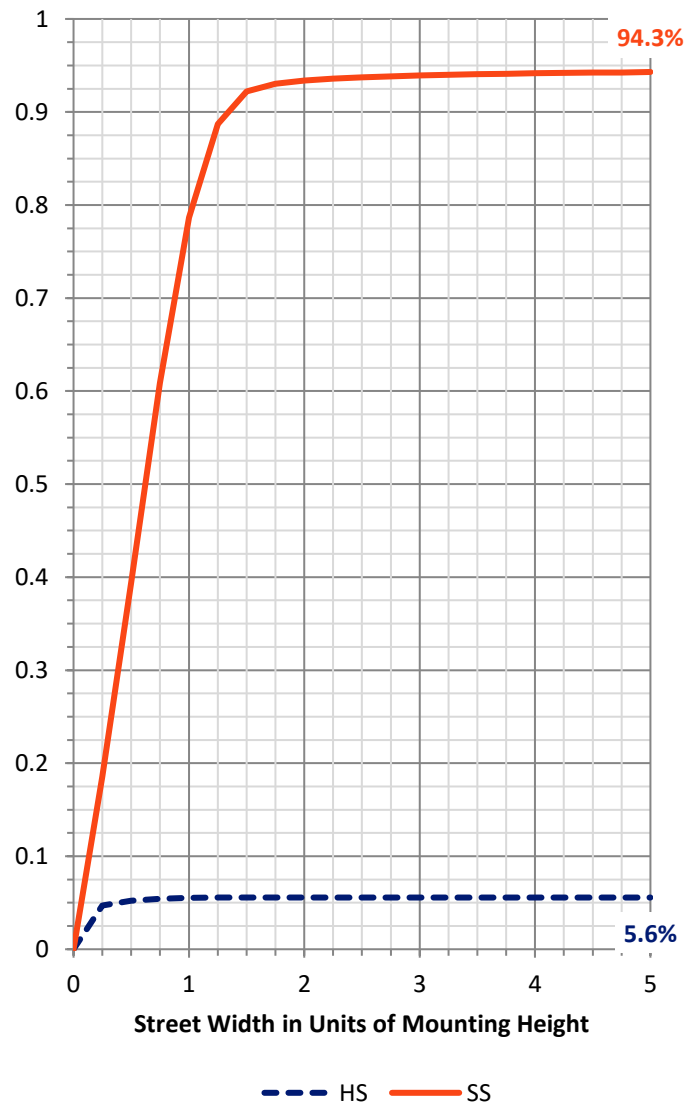
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.1	0.0	1232.1
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	20825.8	0.0	20825.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	22057.9	0.0	22057.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.1	2.4
10°-20°	1245.2	5.6
20°-30°	2118.9	9.6
30°-40°	3644.1	16.5
40°-50°	5626.0	25.5
50°-60°	5656.0	25.6
60°-70°	2900.4	13.1
70°-80°	314.3	1.4
80°-90°	32.9	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°	22057.9	100.0
0°-180°	22057.9	100.0

**Coefficient of Utilization**



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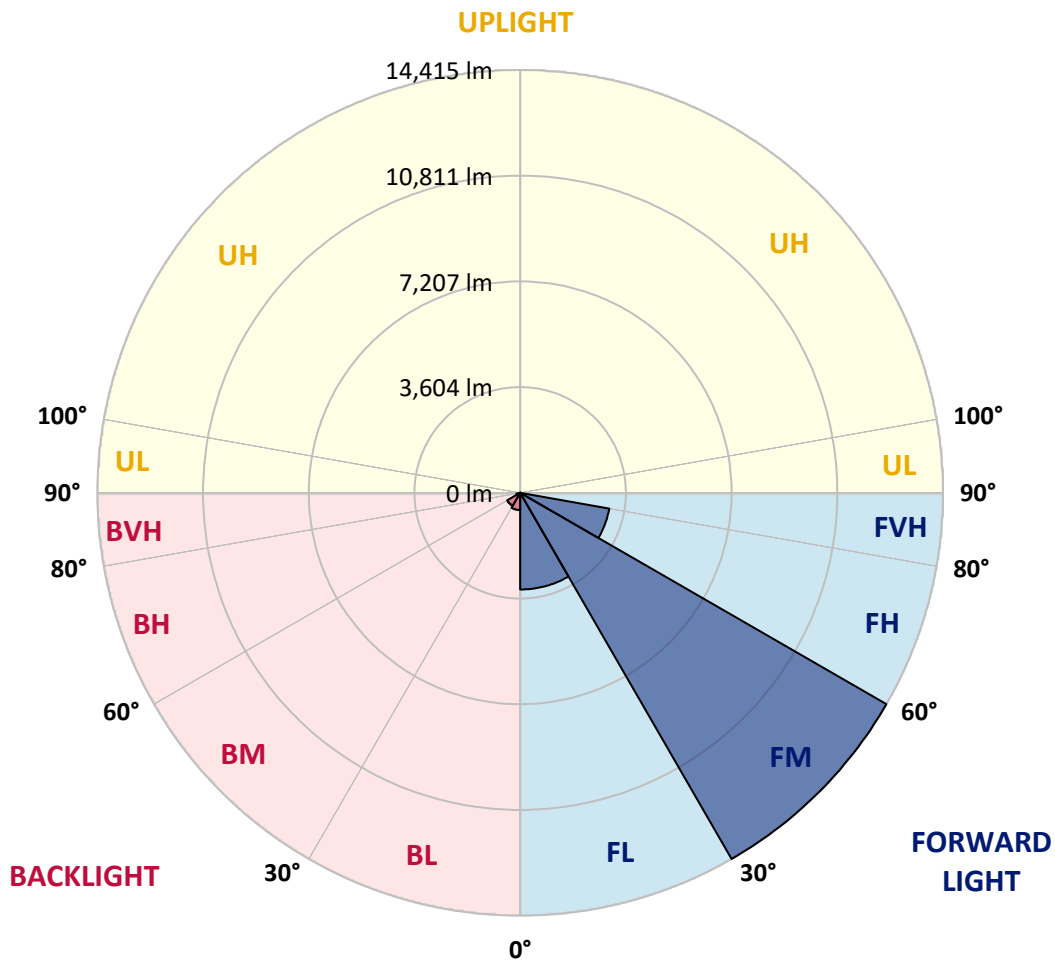
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3296.2	14.9			
FM	(30°-60°)	14414.7	65.3			
FH	(60°-80°)	3082.7	14.0			G2/5000
FVH	(80°-90°)	32.2	0.1			G1/100
BL	(0°-30°)	588.1	2.7	B2/1000		
BM	(30°-60°)	511.3	2.3	B1/1000		
BH	(60°-80°)	132.0	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°	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2
2.5°	7346.9	7268.8	7245.4	7229.8	7158.2	7068.4	6946.0	6888.8	6771.5	6582.8	6351.1
5°	8019.9	8005.6	7953.5	7924.9	7848.1	7720.5	7525.2	7431.5	7245.4	6927.7	6512.5
7.5°	7725.7	7815.5	7887.2	8006.9	8157.9	8152.7	7988.6	7891.0	7682.8	7263.6	6692.1
10°	6589.3	6662.2	6779.4	7051.4	7605.9	8095.4	8288.0	8217.8	8051.1	7572.1	6865.3
12.5°	6366.7	6358.9	6379.7	6459.1	6749.4	7447.2	8237.3	8379.2	8345.3	7854.6	7029.3
15°	6485.2	6476.1	6473.4	6500.9	6571.1	6865.3	7855.9	8263.3	8525.0	8116.2	7168.6
17.5°	6817.1	6778.1	6757.2	6735.1	6714.2	6787.2	7397.7	7939.2	8552.3	8345.3	7284.4
20°	7386.0	7320.8	7244.1	7119.1	7002.0	6965.5	7205.1	7605.9	8454.7	8519.7	7359.9
22.5°	8100.6	8017.3	7884.5	7656.7	7418.5	7280.5	7300.1	7500.5	8308.9	8709.8	7395.1
25°	8903.8	8797.1	8620.0	8303.7	7953.5	7708.8	7581.2	7651.6	8242.5	8932.4	7435.4
27.5°	9764.3	9645.8	9414.0	8983.1	8586.1	8255.5	7995.2	7986.1	8355.8	9224.0	7500.5
30°	10616.8	10598.6	10296.6	9841.0	9315.1	8912.9	8538.0	8489.9	8672.1	9627.5	7629.4
32.5°	11754.5	11617.9	11248.2	10779.5	10172.9	9690.0	9246.1	9134.2	9157.7	10097.4	7828.5
35°	13189.0	13039.3	12518.7	11871.8	11193.5	10623.3	10132.6	9980.3	9923.0	10866.8	8164.4
37.5°	14115.9	14113.2	13786.5	13127.8	12400.2	11771.5	11237.7	11059.4	10943.6	11796.3	8685.1
40°	14140.7	14201.8	14244.8	14238.2	13720.1	13140.9	12667.1	12447.1	12177.6	13038.0	9358.1
42.5°	13381.7	13539.3	13918.1	14561.1	14868.3	14637.9	14238.2	14022.2	13621.2	14367.1	10178.2
45°	12355.9	12465.3	13127.8	14312.4	15490.5	16121.8	15817.3	15430.6	14902.1	15753.4	10913.7
47.5°	11896.4	11915.9	12344.3	13644.6	15537.4	17337.7	17522.5	16893.7	16065.9	16870.3	11489.0
50°	10523.1	10558.3	11149.2	12487.5	14988.1	17911.7	19235.6	18639.4	17335.0	17730.8	11698.6
52.5°	7931.3	7980.9	8730.7	10585.6	13478.0	17667.0	20461.8	20317.2	18725.3	18151.2	11710.3
55°	4679.7	4744.8	5460.7	7125.7	10601.2	16110.1	20552.9	21084.0	19822.6	18399.8	11692.0
57.5°	2185.6	2231.2	2641.2	3670.9	6593.2	12732.2	19180.8	20558.1	20427.9	18531.4	11820.9
60°	1161.2	1174.1	1273.1	1589.4	2979.7	8073.3	16503.3	18563.9	19876.0	18713.6	11978.4
62.5°	887.8	891.7	886.5	924.2	1252.3	3583.6	12474.4	15261.4	17654.0	18576.9	11804.0
65°	769.4	775.8	739.4	730.3	803.1	1278.3	7410.7	10878.5	13872.4	16732.3	10615.6
67.5°	689.9	692.5	648.2	610.5	623.5	691.2	2923.7	5955.4	9182.3	12264.9	7694.4
70°	635.3	632.6	584.5	524.6	507.7	472.5	929.5	2183.0	4388.2	6219.6	3578.4
72.5°	562.3	563.6	540.2	462.1	421.8	330.6	430.9	636.6	1309.6	1694.8	838.3
75°	498.6	492.0	463.4	414.0	347.6	217.4	213.5	283.8	403.6	400.9	181.0
77.5°	360.6	354.0	363.1	339.7	266.9	140.6	106.7	136.7	164.0	158.8	50.7
80°	264.2	260.3	234.4	282.4	235.6	96.4	66.4	72.9	84.6	71.6	15.7
82.5°	181.0	179.6	165.3	156.2	134.1	58.6	41.6	45.5	54.6	40.3	7.8
85°	28.6	32.5	119.8	95.0	79.4	26.1	28.6	31.2	36.4	22.1	2.6
87.5°	0.0	0.0	56.0	49.5	15.7	10.4	16.9	18.2	18.2	11.8	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°	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2	6209.2
2.5°	6232.6	6102.5	5861.6	5613.0	5382.7	5108.0	4919.2	4777.3	4613.3	4569.0	4665.4
5°	6275.6	6029.6	5511.5	4947.8	4418.0	3831.0	3381.9	3026.5	2705.0	2595.6	2694.6
7.5°	6343.3	5977.5	5132.7	4204.5	3283.0	2366.5	1739.1	1326.5	1063.5	985.4	1027.0
10°	6410.9	5902.0	4694.0	3324.6	2064.5	1152.0	749.8	598.8	542.8	531.1	537.6
12.5°	6467.0	5800.4	4159.0	2363.9	1103.9	617.0	490.7	466.1	458.2	458.2	460.8
15°	6500.9	5646.9	3525.1	1503.5	635.3	466.1	428.3	420.4	420.4	421.8	424.3
17.5°	6496.9	5451.6	2831.2	909.9	475.2	412.7	390.6	384.0	382.7	385.3	386.6
20°	6448.7	5196.5	2134.8	600.1	414.0	376.2	354.0	342.4	341.1	343.6	346.3
22.5°	6357.6	4881.4	1527.0	462.1	373.6	341.1	313.7	303.3	303.3	305.9	308.5
25°	6247.0	4496.2	1044.0	391.8	337.2	303.3	277.2	268.1	270.8	277.2	278.5
27.5°	6109.0	4062.6	709.4	335.8	292.9	265.6	246.0	239.5	246.0	255.1	257.8
30°	5990.5	3611.0	506.4	290.3	248.7	229.1	217.4	217.4	226.5	243.5	247.3
32.5°	5899.4	3173.6	390.6	256.5	216.0	199.2	192.6	199.2	213.5	230.4	234.4
35°	5887.7	2813.0	330.6	229.1	192.6	175.7	173.1	184.8	199.2	212.2	214.8
37.5°	5977.5	2479.7	298.1	206.9	171.9	156.2	153.6	168.0	182.3	197.8	201.7
40°	6148.0	2218.2	274.7	186.2	154.9	138.0	132.8	143.2	162.8	183.5	188.7
42.5°	6369.3	2002.0	248.7	165.3	138.0	114.6	108.0	119.8	140.6	162.8	169.2
45°	6580.2	1815.9	220.0	141.9	115.9	88.5	85.9	101.6	111.9	134.1	139.3
47.5°	6696.0	1651.9	195.3	115.9	89.8	71.6	71.6	75.5	85.9	111.9	117.1
50°	6657.1	1520.4	169.2	85.9	62.5	54.6	54.6	53.4	68.9	89.8	93.7
52.5°	6578.9	1444.9	145.8	66.4	43.0	39.1	35.2	39.1	48.2	57.3	58.6
55°	6567.1	1431.9	122.3	53.4	30.0	26.1	19.5	19.5	19.5	18.2	15.7
57.5°	6658.3	1452.7	102.8	43.0	22.1	16.9	10.4	0.0	0.0	0.0	0.0
60°	6752.0	1474.9	88.5	30.0	15.7	9.1	1.3	0.0	0.0	0.0	0.0
62.5°	6595.8	1425.4	74.2	18.2	11.8	3.9	0.0	0.0	0.0	0.0	0.0
65°	5794.0	1213.2	58.6	13.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4121.3	812.3	39.1	7.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1881.0	339.7	24.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	402.2	105.5	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	82.0	76.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.1	121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.7	87.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	13.0	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)