

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: P190933

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190933  
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-05-LED-E1-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 24912.9 lumens  
Efficiency: N/A  
Efficacy: 89.3 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): 279  
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

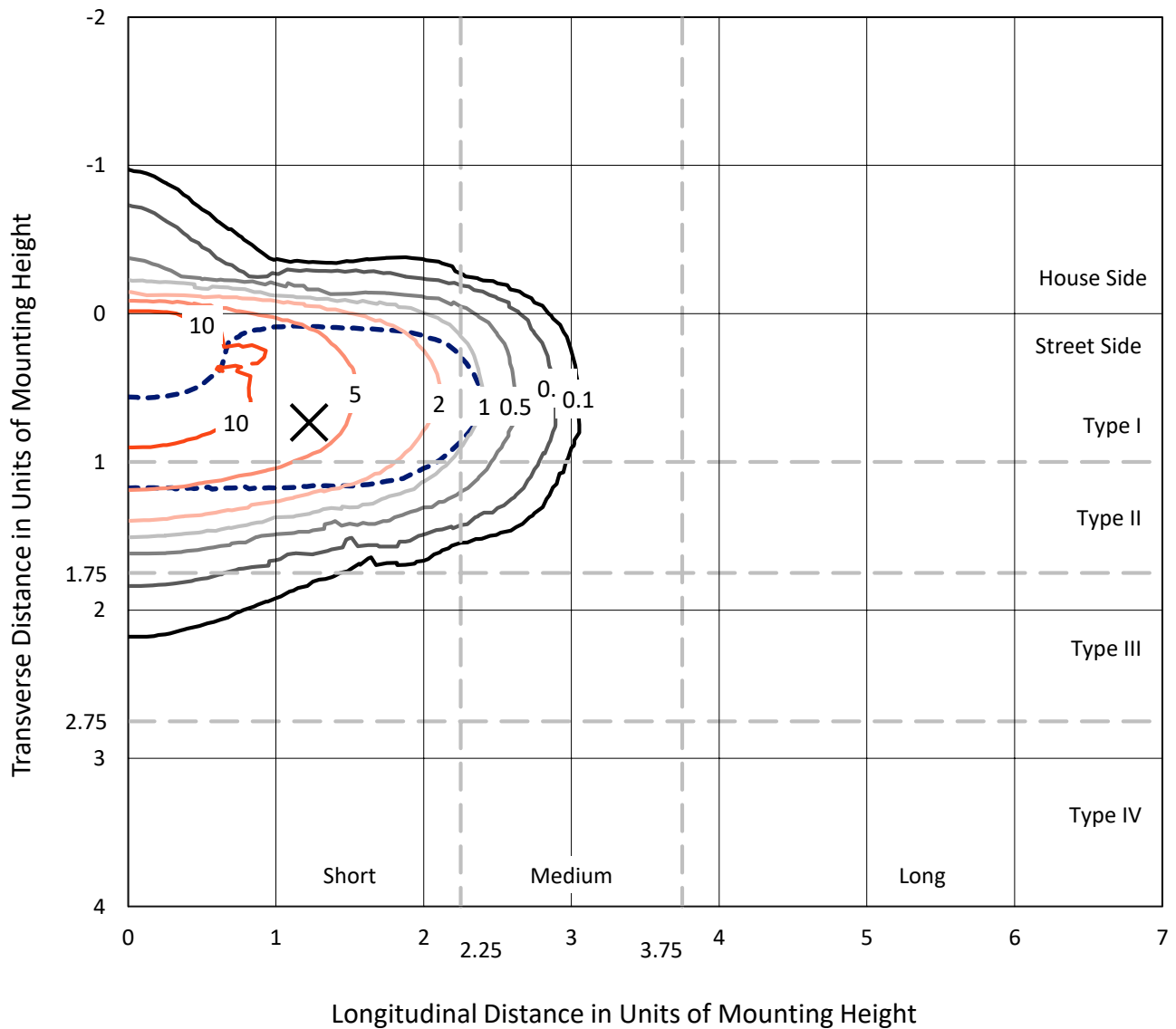


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

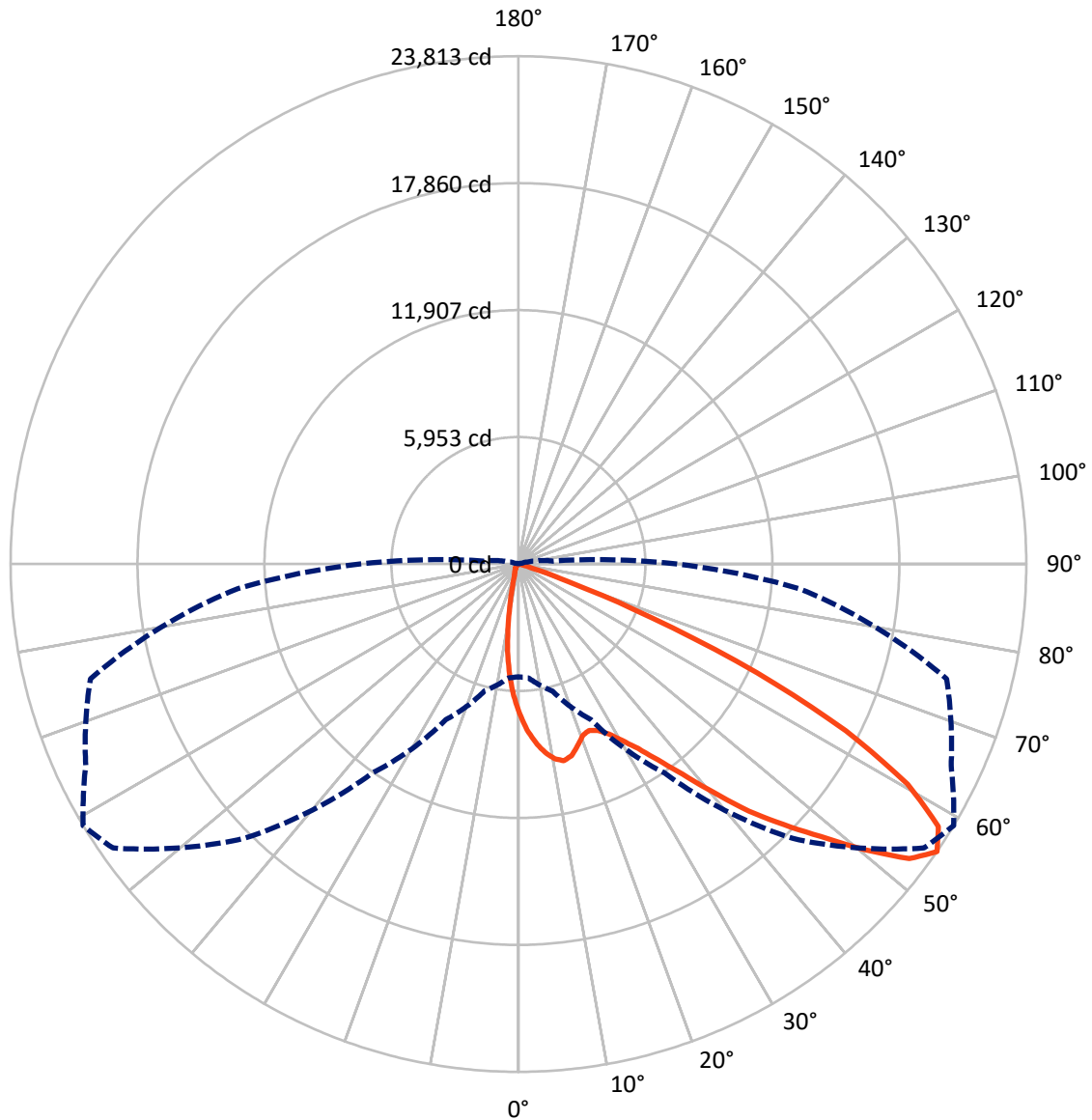


Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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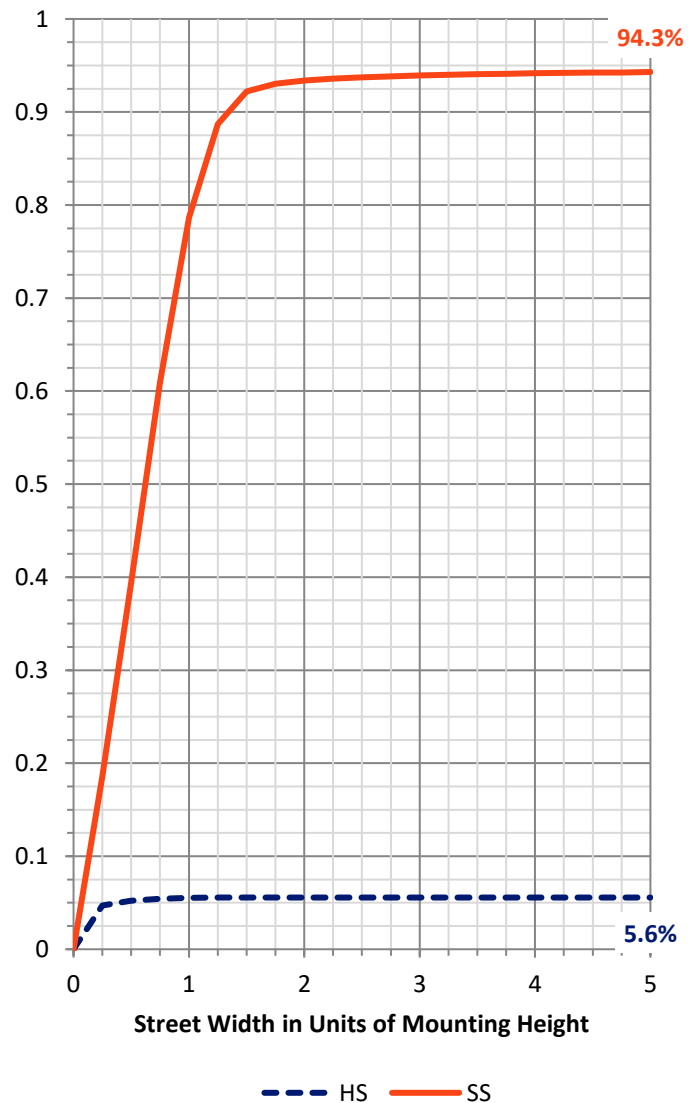
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1391.5	0.0	1391.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	23521.4	0.0	23521.4
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	24912.9	0.0	24912.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.4	2.4
10°-20°	1406.4	5.6
20°-30°	2393.2	9.6
30°-40°	4115.7	16.5
40°-50°	6354.2	25.5
50°-60°	6388.0	25.6
60°-70°	3275.8	13.1
70°-80°	355.0	1.4
80°-90°	37.1	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°	24912.9	100.0
0°-180°	24912.9	100.0

**Coefficient of Utilization**



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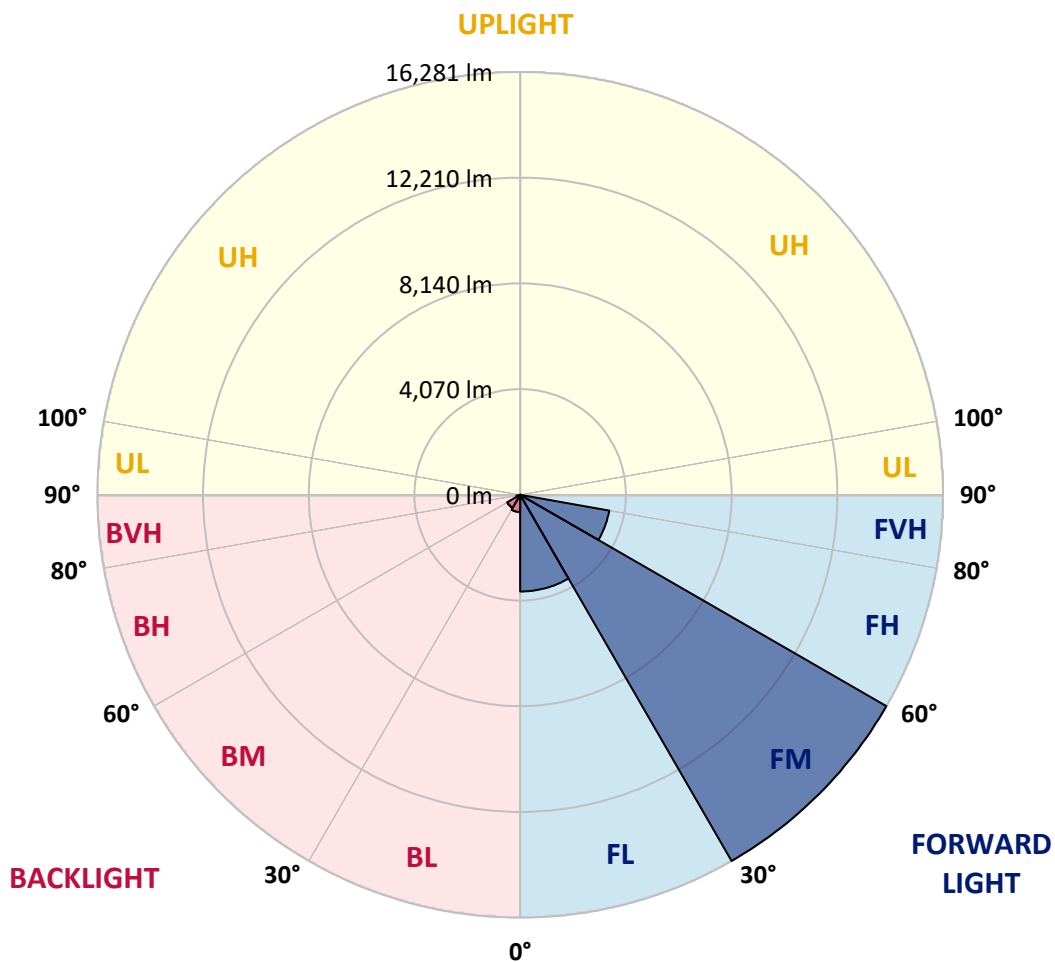
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.8	14.9			
FM (30°-60°)	16280.5	65.3			
FH (60°-80°)	3481.8	14.0			G2/5000
FVH (80°-90°)	36.3	0.1			G1/100
BL (0°-30°)	664.2	2.7	B2/1000		
BM (30°-60°)	577.5	2.3	B1/1000		
BH (60°-80°)	149.1	0.6	B1/500		G1/500
BVH (80°-90°)	0.8	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°	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9
2.5°	8297.9	8209.7	8183.2	8165.5	8084.7	7983.2	7845.0	7780.4	7648.0	7434.8	7173.1
5°	9057.9	9041.8	8982.9	8950.6	8863.9	8719.8	8499.3	8393.4	8183.2	7824.4	7355.4
7.5°	8725.7	8827.1	8908.0	9043.3	9213.8	9207.9	9022.6	8912.5	8677.2	8203.8	7558.4
10°	7442.2	7524.5	7656.9	7964.1	8590.4	9143.2	9360.8	9281.4	9093.2	8552.2	7753.9
12.5°	7190.8	7181.9	7205.5	7295.2	7623.0	8411.1	9303.5	9463.7	9425.5	8871.2	7939.1
15°	7324.6	7314.3	7311.3	7342.2	7421.6	7753.9	8872.8	9332.9	9628.4	9166.8	8096.5
17.5°	7699.4	7655.4	7631.8	7606.9	7583.3	7665.7	8355.2	8966.8	9659.3	9425.5	8227.3
20°	8342.0	8268.5	8181.8	8040.6	7908.2	7867.1	8137.6	8590.4	9549.0	9622.5	8312.6
22.5°	9149.2	9055.1	8905.1	8647.8	8378.7	8222.9	8245.0	8471.4	9384.3	9837.2	8352.3
25°	10056.2	9935.7	9735.7	9378.5	8982.9	8706.5	8562.5	8641.9	9309.4	10088.5	8397.8
27.5°	11028.0	10894.2	10632.6	10145.9	9697.5	9324.1	9030.0	9019.8	9437.2	10417.9	8471.4
30°	11991.0	11970.5	11629.3	11114.8	10520.8	10066.6	9643.2	9588.7	9794.5	10873.7	8616.9
32.5°	13276.0	13121.6	12704.1	12174.9	11489.7	10944.2	10442.9	10316.5	10343.0	11404.5	8841.9
35°	14896.2	14727.1	14139.0	13408.3	12642.3	11998.4	11444.2	11272.1	11207.4	12273.4	9221.2
37.5°	15943.0	15940.0	15570.9	14827.1	14005.2	13295.1	12692.4	12490.9	12360.1	13323.0	9809.3
40°	15970.9	16040.0	16088.6	16081.2	15496.1	14841.8	14306.6	14058.1	13753.8	14725.6	10569.3
42.5°	15113.8	15291.7	15719.5	16445.8	16792.8	16532.5	16081.2	15837.1	15384.3	16226.8	11495.6
45°	13955.2	14078.8	14827.1	16165.0	17495.5	18208.5	17864.5	17427.9	16831.0	17792.5	12326.3
47.5°	13436.3	13458.4	13942.0	15410.8	17548.4	19581.7	19790.5	19080.4	18145.3	19053.9	12976.0
50°	11885.2	11924.8	12592.3	14103.7	16928.0	20230.1	21725.3	21051.9	19578.8	20025.7	13212.7
52.5°	8958.0	9013.8	9860.7	11955.7	15222.5	19953.7	23110.2	22947.0	21149.0	20500.7	13226.0
55°	5285.4	5358.9	6167.6	8048.0	11973.4	18195.3	23213.1	23813.0	22388.4	20781.5	13205.5
57.5°	2468.5	2519.9	2983.0	4146.0	7446.6	14380.1	21663.5	23219.0	23072.0	20929.9	13350.9
60°	1311.4	1326.2	1437.9	1795.2	3365.3	9118.3	18639.3	20966.7	22448.7	21135.7	13528.8
62.5°	1002.7	1007.1	1001.3	1043.8	1414.3	4047.5	14089.0	17236.7	19938.9	20981.3	13331.9
65°	868.9	876.3	835.0	824.8	907.2	1443.8	8369.9	12286.6	15668.0	18898.1	11989.6
67.5°	779.2	782.1	732.1	689.6	704.2	780.7	3302.1	6726.2	10370.9	13852.3	8690.4
70°	717.5	714.5	660.1	592.5	573.4	533.7	1049.8	2465.5	4956.1	7024.7	4041.6
72.5°	635.2	636.6	610.1	521.9	476.4	373.5	486.6	718.9	1479.0	1914.2	946.8
75°	563.1	555.8	523.4	467.5	392.5	245.5	241.1	320.5	455.7	452.9	204.4
77.5°	407.2	399.9	410.2	383.7	301.4	158.8	120.6	154.4	185.3	179.3	57.4
80°	298.5	294.0	264.6	319.1	266.1	108.8	75.0	82.3	95.5	80.8	17.6
82.5°	204.4	202.9	186.7	176.5	151.4	66.2	47.1	51.5	61.8	45.6	8.8
85°	32.3	36.7	135.2	107.3	89.7	29.4	32.3	35.3	41.1	25.0	3.0
87.5°	0.0	0.0	63.2	55.9	17.6	11.8	19.1	20.6	20.6	13.2	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°	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9
2.5°	7039.3	6892.3	6620.3	6339.5	6079.3	5769.1	5556.0	5395.7	5210.4	5160.5	5269.2
5°	7087.9	6810.0	6224.9	5588.3	4989.9	4326.9	3819.6	3418.2	3055.1	2931.6	3043.4
7.5°	7164.3	6751.2	5797.1	4748.7	3707.9	2672.9	1964.2	1498.1	1201.1	1113.0	1160.0
10°	7240.8	6666.0	5301.5	3754.9	2331.7	1301.1	846.8	676.3	613.1	599.9	607.2
12.5°	7304.0	6551.3	4697.3	2669.9	1246.8	696.8	554.2	526.3	517.5	517.5	520.5
15°	7342.2	6377.8	3981.3	1698.1	717.5	526.3	483.7	474.9	474.9	476.4	479.3
17.5°	7337.8	6157.2	3197.7	1027.7	536.6	466.1	441.1	433.7	432.2	435.2	436.7
20°	7283.4	5869.1	2411.1	677.8	467.5	424.9	399.9	386.7	385.2	388.1	391.1
22.5°	7180.5	5513.3	1724.6	521.9	422.0	385.2	354.4	342.6	342.6	345.5	348.4
25°	7055.5	5078.1	1179.2	442.5	380.7	342.6	313.1	302.9	305.8	313.1	314.7
27.5°	6899.7	4588.5	801.3	379.3	330.8	299.9	277.8	270.5	277.8	288.2	291.1
30°	6765.9	4078.4	571.9	327.9	280.8	258.8	245.5	245.5	255.8	275.0	279.4
32.5°	6663.0	3584.4	441.1	289.6	244.1	224.9	217.6	224.9	241.1	260.2	264.6
35°	6649.8	3177.1	373.5	258.8	217.6	198.5	195.6	208.8	224.9	239.7	242.5
37.5°	6751.2	2800.7	336.7	233.7	194.1	176.5	173.5	189.7	205.8	223.5	227.9
40°	6943.8	2505.2	310.3	210.2	174.9	155.8	150.0	161.7	183.8	207.2	213.2
42.5°	7193.7	2261.2	280.8	186.7	155.8	129.4	122.0	135.2	158.8	183.8	191.1
45°	7431.9	2050.9	248.5	160.3	130.8	99.9	97.1	114.7	126.4	151.4	157.3
47.5°	7562.8	1865.7	220.5	130.8	101.5	80.8	80.8	85.3	97.1	126.4	132.4
50°	7518.7	1717.2	191.1	97.1	70.6	61.8	61.8	60.3	77.9	101.5	105.9
52.5°	7430.4	1631.9	164.7	75.0	48.5	44.1	39.7	44.1	54.4	64.7	66.2
55°	7417.2	1617.2	138.2	60.3	33.9	29.4	22.1	22.1	22.1	20.6	17.6
57.5°	7520.1	1640.7	116.1	48.5	25.0	19.1	11.8	0.0	0.0	0.0	0.0
60°	7626.0	1665.8	99.9	33.9	17.6	10.3	1.4	0.0	0.0	0.0	0.0
62.5°	7449.5	1609.9	83.8	20.6	13.2	4.4	0.0	0.0	0.0	0.0	0.0
65°	6543.9	1370.2	66.2	14.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4654.7	917.4	44.1	8.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2124.5	383.7	27.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	454.3	119.1	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	92.6	86.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	136.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	14.7	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)