

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: P191743

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191743  
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-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 26716 lumens  
Efficiency: N/A  
Efficacy: 83.5 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): 320  
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

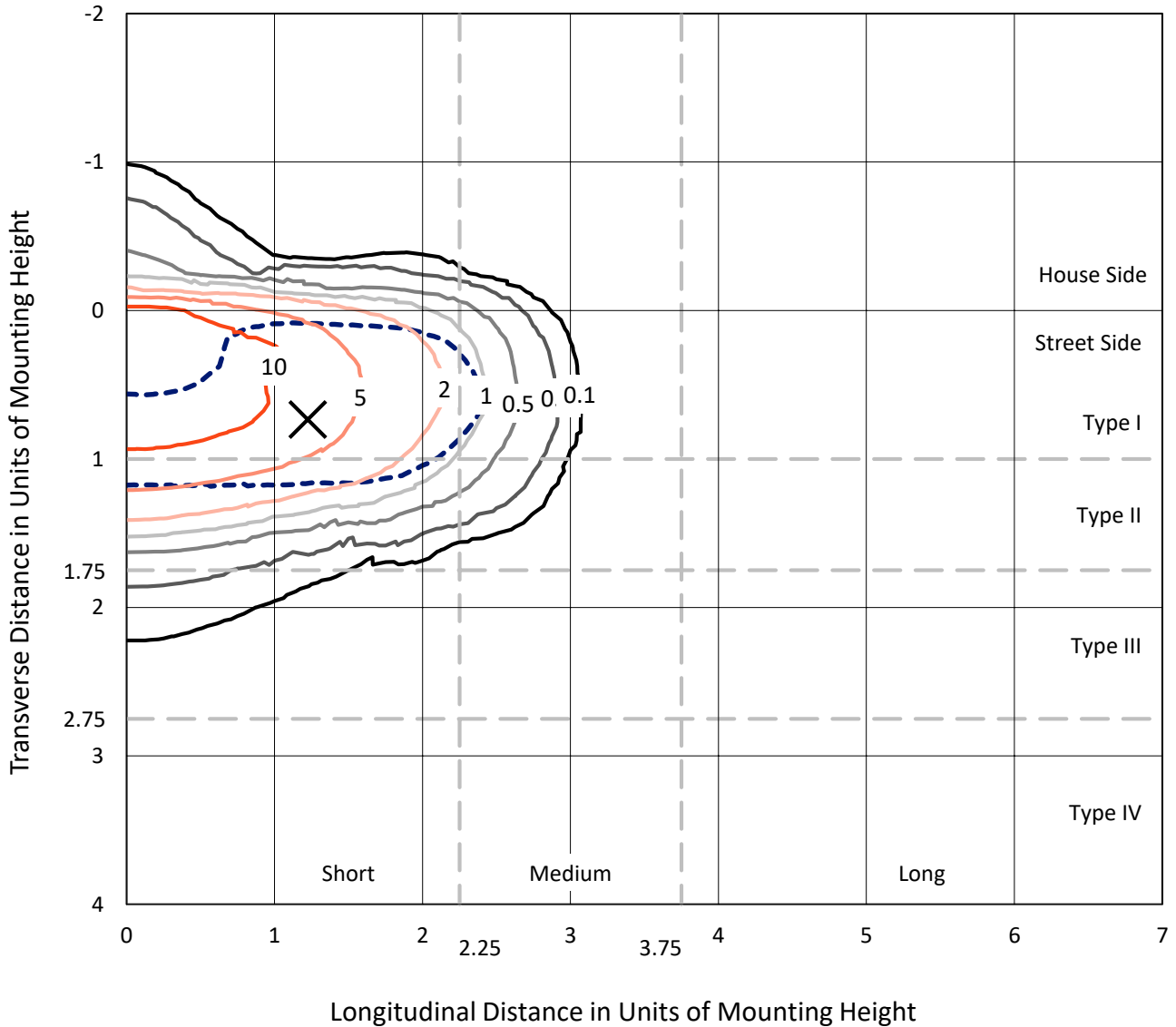


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

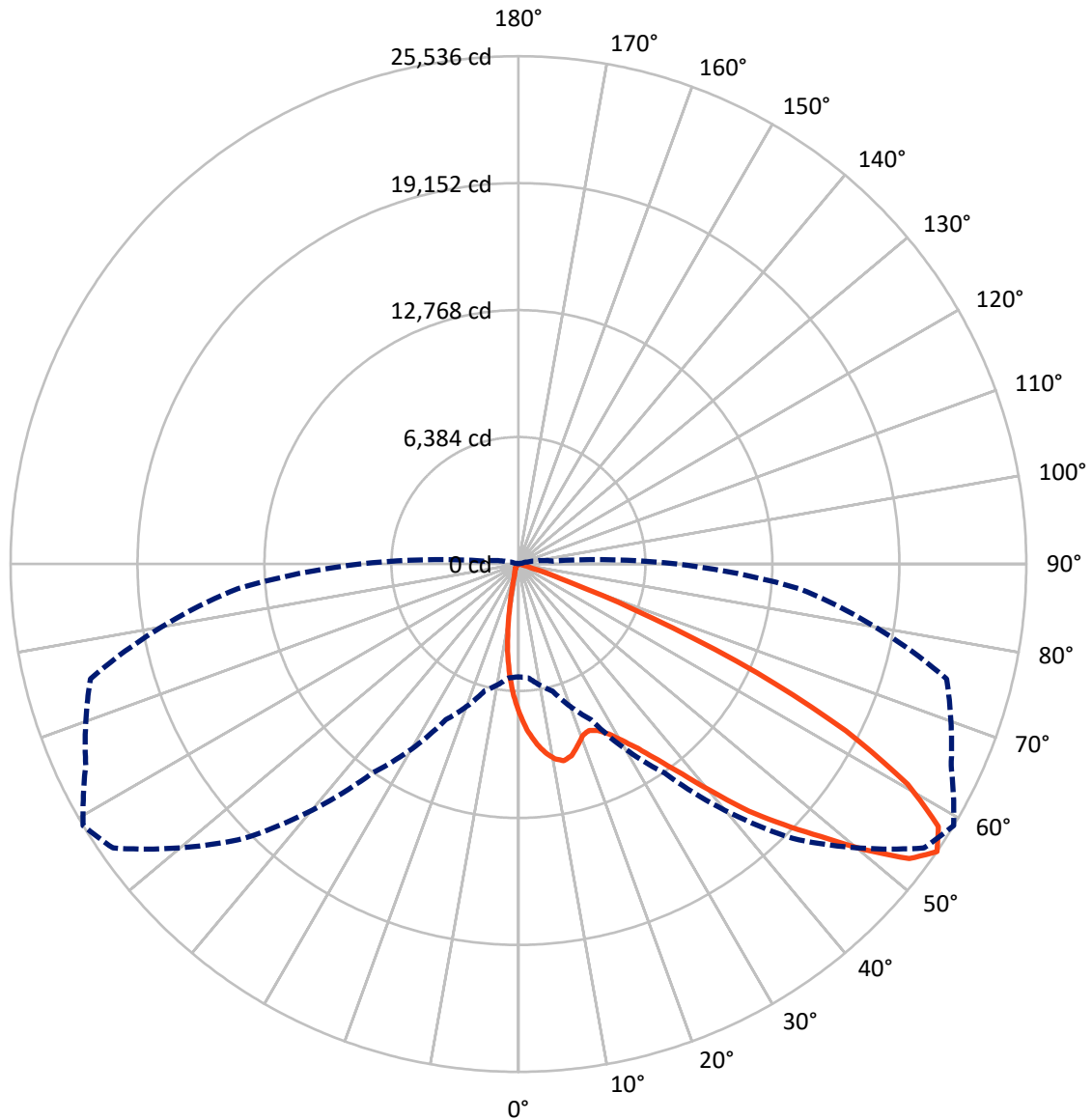


Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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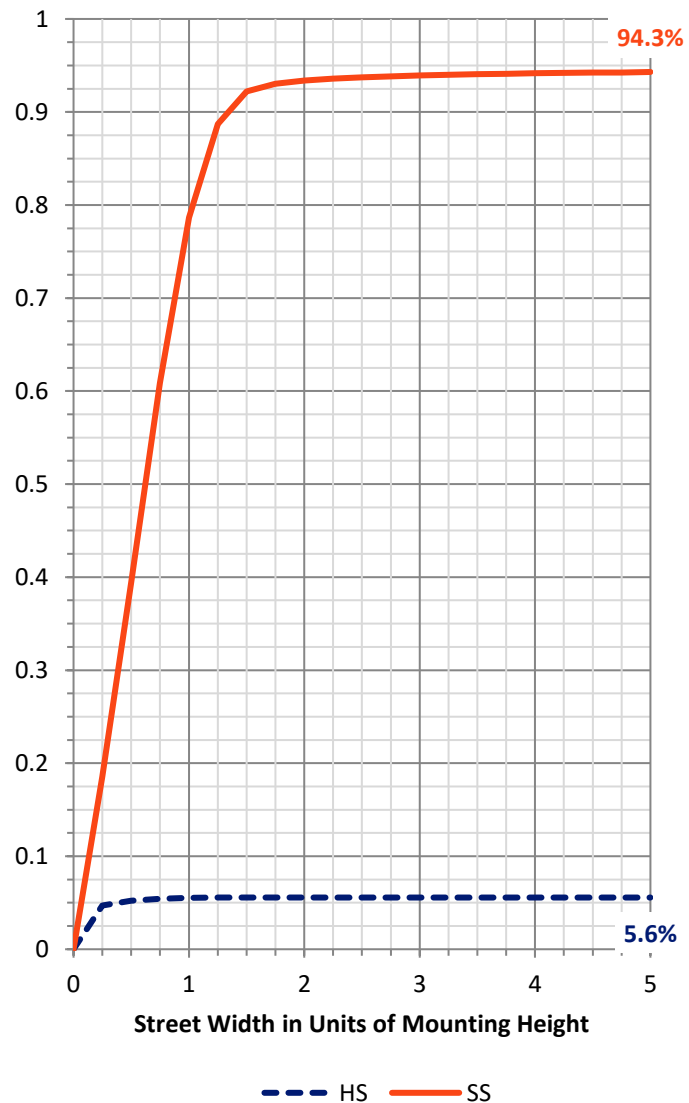
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1492.2	0.0	1492.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	25223.8	0.0	25223.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	26716.0	0.0	26716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.9	2.4
10°-20°	1508.2	5.6
20°-30°	2566.4	9.6
30°-40°	4413.6	16.5
40°-50°	6814.1	25.5
50°-60°	6850.4	25.6
60°-70°	3512.9	13.1
70°-80°	380.7	1.4
80°-90°	39.8	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°	26716.0	100.0
0°-180°	26716.0	100.0

**Coefficient of Utilization**



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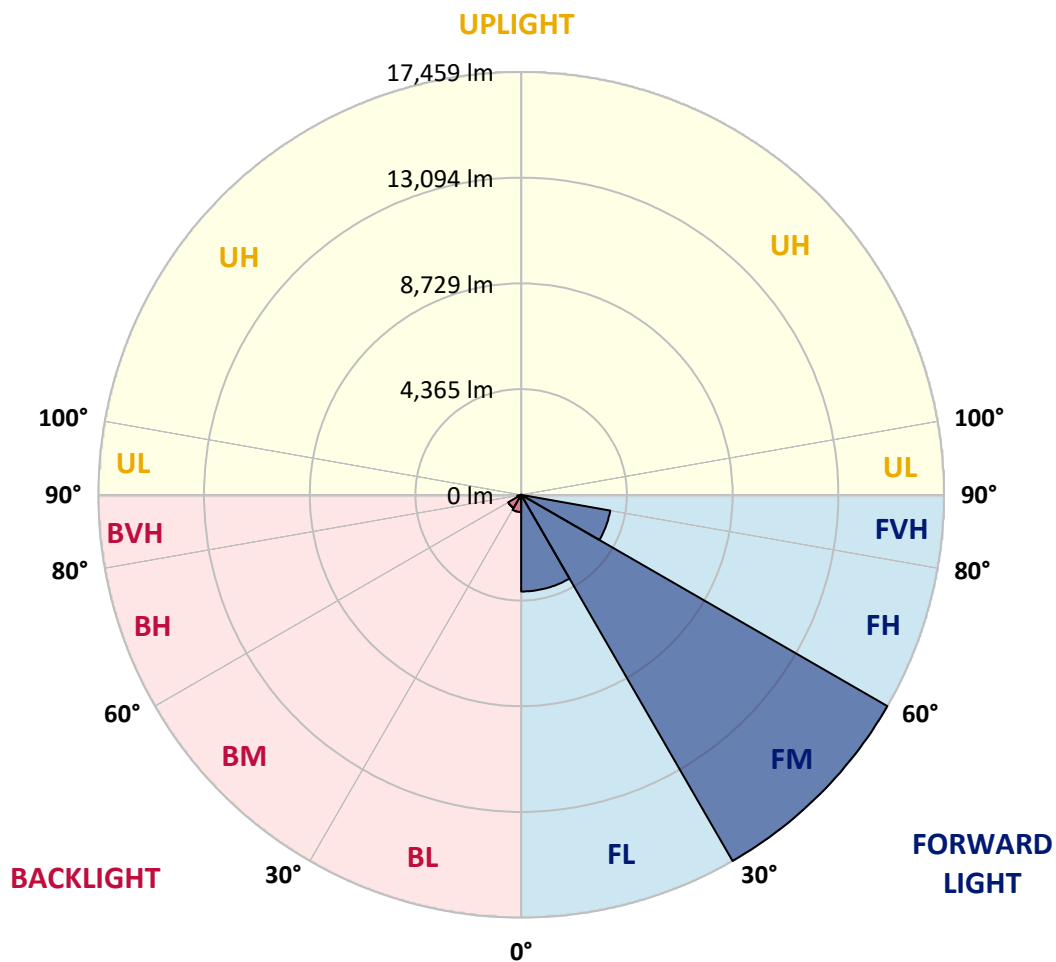
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3992.2	14.9			
FM (30°-60°)	17458.8	65.3			
FH (60°-80°)	3733.8	14.0			G2/5000
FVH (80°-90°)	39.0	0.1			G1/100
BL (0°-30°)	712.2	2.7	B2/1000		
BM (30°-60°)	619.3	2.3	B1/1000		
BH (60°-80°)	159.9	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°	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5
2.5°	8898.4	8803.8	8775.4	8756.5	8669.8	8561.0	8412.8	8343.5	8201.6	7972.9	7692.3
5°	9713.5	9696.2	9633.1	9598.4	9505.4	9350.9	9114.4	9000.9	8775.4	8390.7	7887.8
7.5°	9357.2	9466.0	9552.7	9697.8	9880.7	9874.3	9675.7	9557.4	9305.2	8797.5	8105.4
10°	7980.8	8069.1	8211.0	8540.5	9212.2	9805.0	10038.3	9953.2	9751.4	9171.2	8315.1
12.5°	7711.2	7701.8	7727.0	7823.2	8174.8	9019.8	9976.8	10148.7	10107.7	9513.3	8513.7
15°	7854.7	7843.7	7840.5	7873.6	7958.8	8315.1	9514.9	10008.4	10325.3	9830.2	8682.4
17.5°	8256.7	8209.4	8184.2	8157.4	8132.2	8220.5	8959.9	9615.8	10358.4	10107.7	8822.7
20°	8945.7	8866.9	8773.9	8622.5	8480.6	8436.5	8726.6	9212.2	10240.1	10319.0	8914.2
22.5°	9811.3	9710.4	9549.6	9273.7	8985.1	8818.0	8841.7	9084.5	10063.5	10549.1	8956.8
25°	10784.1	10654.8	10440.4	10057.2	9633.1	9336.7	9182.2	9267.3	9983.1	10818.7	9005.6
27.5°	11826.2	11682.7	11402.1	10880.2	10399.4	9998.9	9683.6	9672.5	10120.3	11171.9	9084.5
30°	12858.9	12836.8	12471.0	11919.2	11282.3	10795.1	10341.0	10282.7	10503.4	11660.7	9240.5
32.5°	14236.8	14071.3	13623.5	13056.0	12321.3	11736.3	11198.7	11063.1	11091.5	12229.8	9481.8
35°	15974.3	15793.0	15162.3	14378.7	13557.3	12866.8	12272.4	12087.9	12018.5	13161.6	9888.5
37.5°	17096.8	17093.7	16697.9	15900.2	15018.8	14257.3	13610.9	13394.9	13254.6	14287.3	10519.2
40°	17126.8	17200.9	17252.9	17245.0	16617.5	15915.9	15342.0	15075.6	14749.2	15791.4	11334.3
42.5°	16207.6	16398.4	16857.2	17636.0	18008.1	17729.0	17245.0	16983.3	16497.7	17401.1	12327.6
45°	14965.2	15097.7	15900.2	17334.9	18761.7	19526.4	19157.5	18689.2	18049.1	19080.2	13218.3
47.5°	14408.7	14432.3	14951.0	16526.1	18818.5	20998.9	21222.8	20461.3	19458.6	20432.9	13915.2
50°	12745.4	12787.9	13503.7	15124.5	18153.2	21694.2	23297.7	22575.6	20995.8	21475.1	14169.0
52.5°	9606.3	9666.2	10574.4	12821.0	16324.3	21397.8	24782.8	24607.8	22679.6	21984.3	14183.2
55°	5667.9	5746.8	6613.9	8630.4	12840.0	19512.2	24893.2	25536.4	24008.7	22285.5	14161.2
57.5°	2647.1	2702.3	3199.0	4446.1	7985.6	15420.9	23231.4	24899.5	24741.8	22444.7	14317.2
60°	1406.3	1422.1	1541.9	1925.0	3608.9	9778.2	19988.3	22484.1	24073.3	22665.4	14508.0
62.5°	1075.3	1080.0	1073.7	1119.4	1516.7	4340.4	15108.7	18484.2	21382.1	22499.9	14296.8
65°	931.8	939.7	895.5	884.5	972.8	1548.2	8975.7	13175.8	16802.0	20265.8	12857.3
67.5°	835.6	838.8	785.2	739.4	755.2	837.2	3541.1	7213.0	11121.4	14854.9	9319.4
70°	769.4	766.2	707.9	635.4	614.9	572.3	1125.7	2644.0	5314.8	7533.1	4334.1
72.5°	681.1	682.7	654.3	559.7	510.8	400.5	521.9	771.0	1586.1	2052.8	1015.3
75°	603.8	596.0	561.3	501.4	421.0	263.3	258.6	343.7	488.8	485.6	219.1
77.5°	436.7	428.8	439.9	411.5	323.2	170.3	129.3	165.5	198.7	192.3	61.5
80°	320.1	315.3	283.8	342.1	285.4	116.7	80.4	88.3	102.5	86.7	18.9
82.5°	219.1	217.6	200.2	189.2	162.4	70.9	50.5	55.2	66.2	48.9	9.5
85°	34.7	39.4	145.0	115.1	96.2	31.5	34.7	37.8	44.1	26.8	3.2
87.5°	0.0	0.0	67.8	59.9	18.9	12.6	20.5	22.1	22.1	14.2	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°	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5	7520.5
2.5°	7548.8	7391.2	7099.5	6798.4	6519.3	6186.6	5958.0	5786.2	5587.5	5533.9	5650.6
5°	7600.9	7302.9	6675.4	5992.7	5351.0	4640.0	4096.0	3665.6	3276.2	3143.8	3263.6
7.5°	7682.8	7239.8	6216.6	5092.5	3976.2	2866.3	2106.4	1606.6	1288.1	1193.5	1243.9
10°	7764.8	7148.4	5685.3	4026.7	2500.5	1395.3	908.1	725.2	657.4	643.3	651.1
12.5°	7832.6	7025.4	5037.3	2863.1	1337.0	747.3	594.4	564.4	555.0	555.0	558.1
15°	7873.6	6839.4	4269.5	1821.0	769.4	564.4	518.7	509.2	509.2	510.8	514.0
17.5°	7868.9	6602.9	3429.1	1102.1	575.5	499.8	473.0	465.1	463.5	466.7	468.3
20°	7810.6	6293.9	2585.6	726.8	501.4	455.6	428.8	414.6	413.1	416.2	419.4
22.5°	7700.2	5912.3	1849.4	559.7	452.5	413.1	380.0	367.4	367.4	370.5	373.7
25°	7566.2	5445.6	1264.4	474.6	408.3	367.4	335.8	324.8	327.9	335.8	337.4
27.5°	7399.1	4920.6	859.3	406.8	354.7	321.6	298.0	290.1	298.0	309.0	312.2
30°	7255.6	4373.5	613.3	351.6	301.1	277.5	263.3	263.3	274.3	294.8	299.6
32.5°	7145.2	3843.8	473.0	310.6	261.7	241.2	233.3	241.2	258.6	279.1	283.8
35°	7131.0	3407.1	400.5	277.5	233.3	212.8	209.7	223.9	241.2	257.0	260.1
37.5°	7239.8	3003.5	361.0	250.7	208.1	189.2	186.0	203.4	220.7	239.6	244.4
40°	7446.4	2686.6	332.7	225.5	187.6	167.1	160.8	173.4	197.1	222.3	228.6
42.5°	7714.4	2424.8	301.1	200.2	167.1	138.7	130.9	145.0	170.3	197.1	205.0
45°	7969.8	2199.4	266.4	171.9	140.3	107.2	104.1	123.0	135.6	162.4	168.7
47.5°	8110.1	2000.7	236.5	140.3	108.8	86.7	86.7	91.4	104.1	135.6	141.9
50°	8062.8	1841.5	205.0	104.1	75.7	66.2	66.2	64.6	83.6	108.8	113.5
52.5°	7968.2	1750.0	176.6	80.4	52.0	47.3	42.6	47.3	58.3	69.4	70.9
55°	7954.0	1734.3	148.2	64.6	36.3	31.5	23.6	23.6	23.6	22.1	18.9
57.5°	8064.4	1759.5	124.6	52.0	26.8	20.5	12.6	0.0	0.0	0.0	0.0
60°	8177.9	1786.3	107.2	36.3	18.9	11.0	1.6	0.0	0.0	0.0	0.0
62.5°	7988.7	1726.4	89.9	22.1	14.2	4.7	0.0	0.0	0.0	0.0	0.0
65°	7017.5	1469.4	70.9	15.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4991.6	983.8	47.3	9.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2278.2	411.5	30.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	487.2	127.7	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	99.3	93.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.5	146.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.9	105.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	15.8	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)