

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: P317575

Luminaire Tested: **GLEON-SA1D-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6221 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

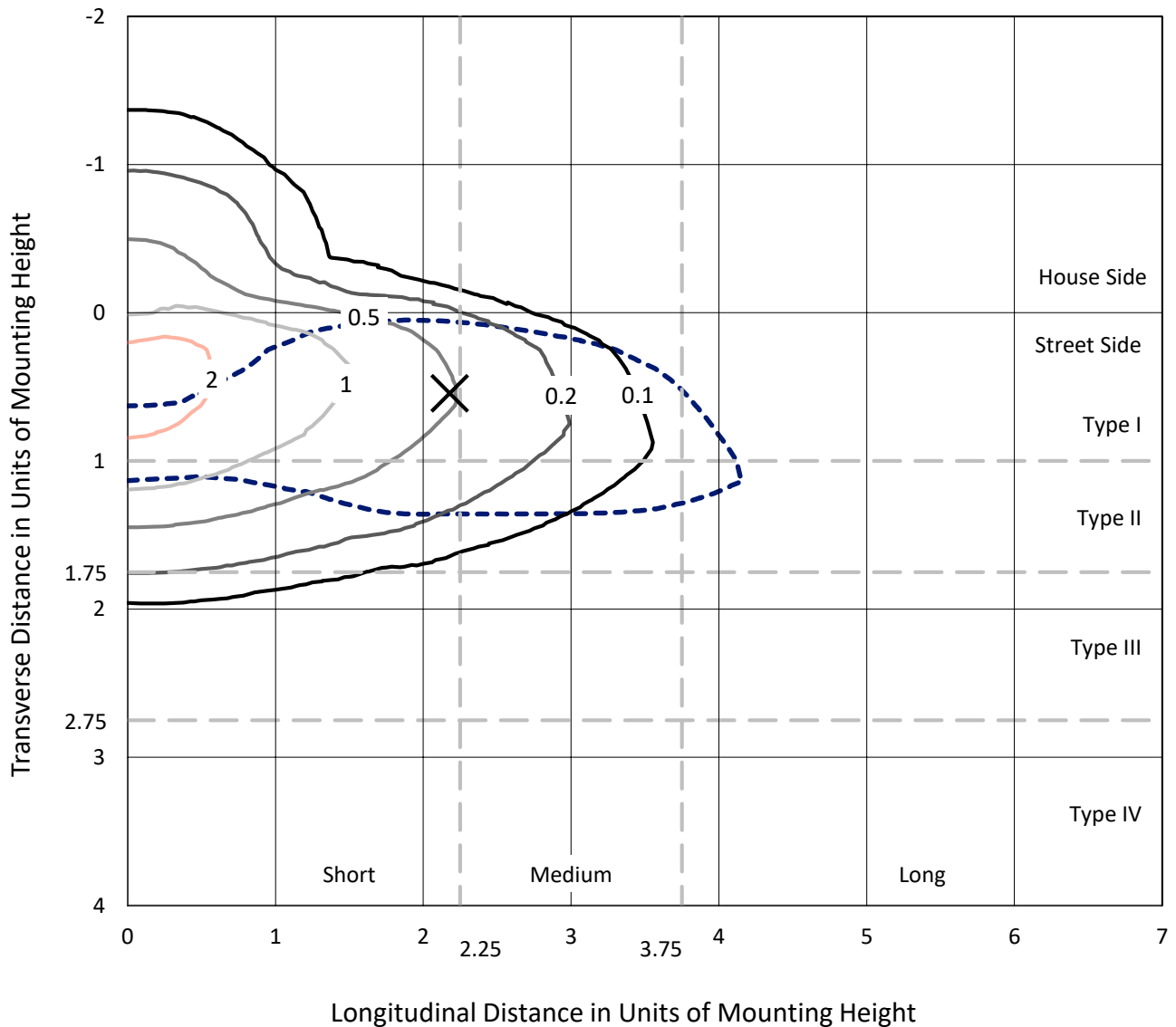
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

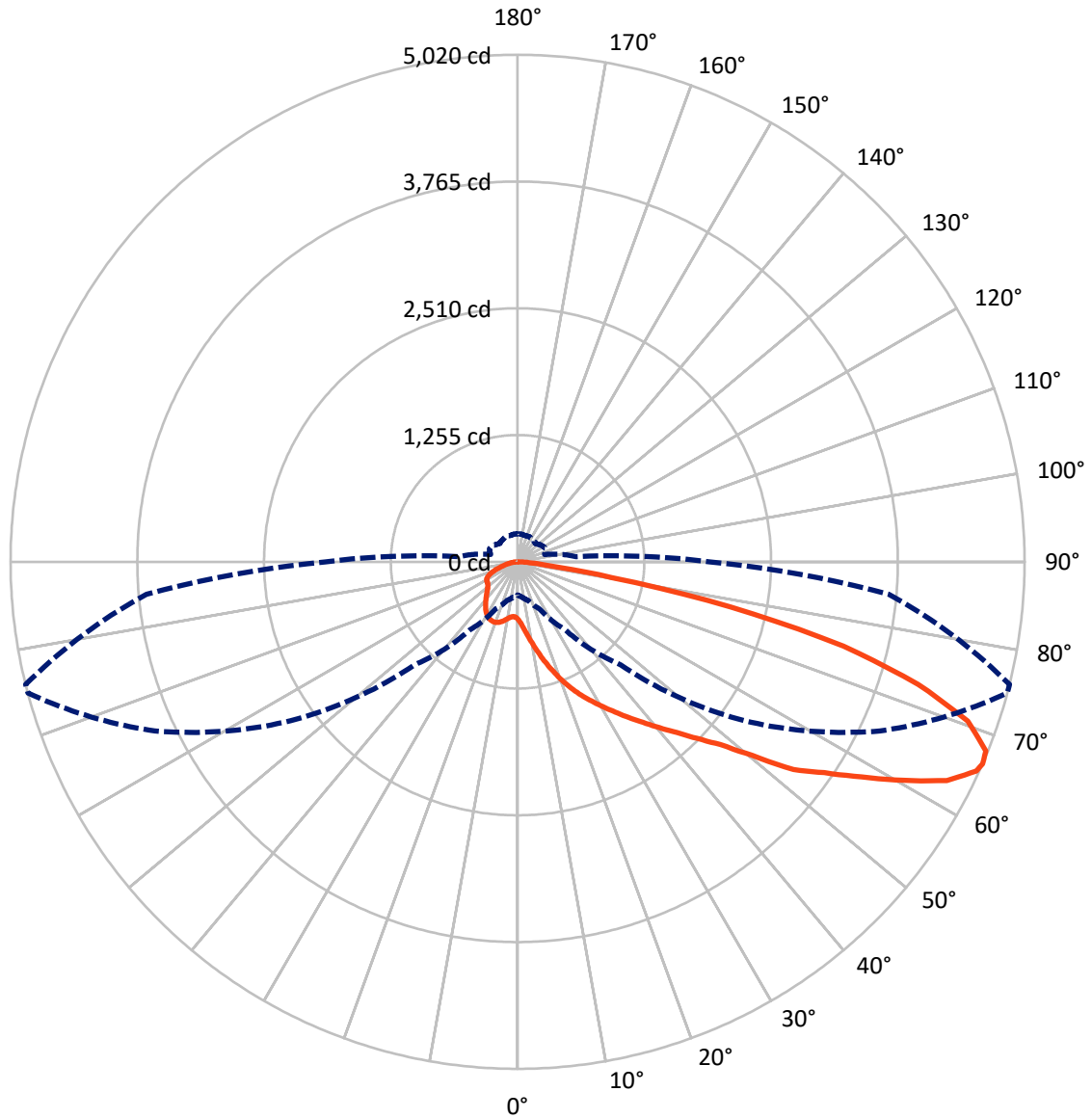
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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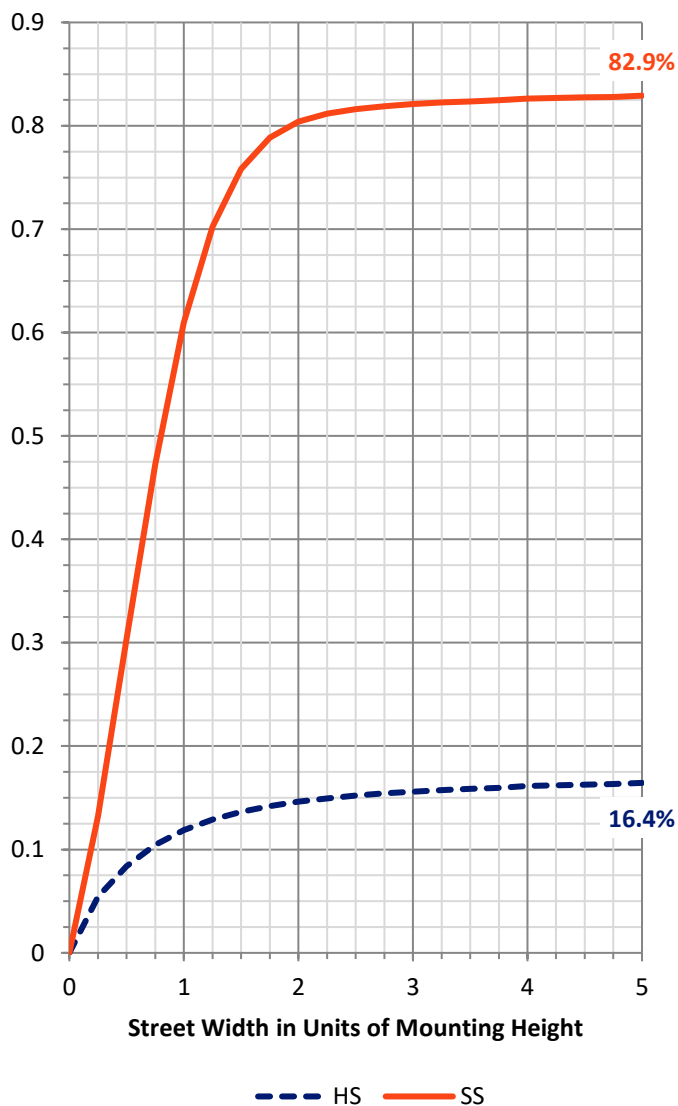
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1046.8	0.0	1046.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5174.2	0.0	5174.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	6221.0	0.0	6221.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	1.1
10°-20°	271.3	4.4
20°-30°	527.2	8.5
30°-40°	860.5	13.8
40°-50°	1175.6	18.9
50°-60°	1369.4	22.0
60°-70°	1227.7	19.7
70°-80°	620.4	10.0
80°-90°	100.2	1.6
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°	6221.0	100.0
0°-180°	6221.0	100.0

**Coefficient of Utilization**



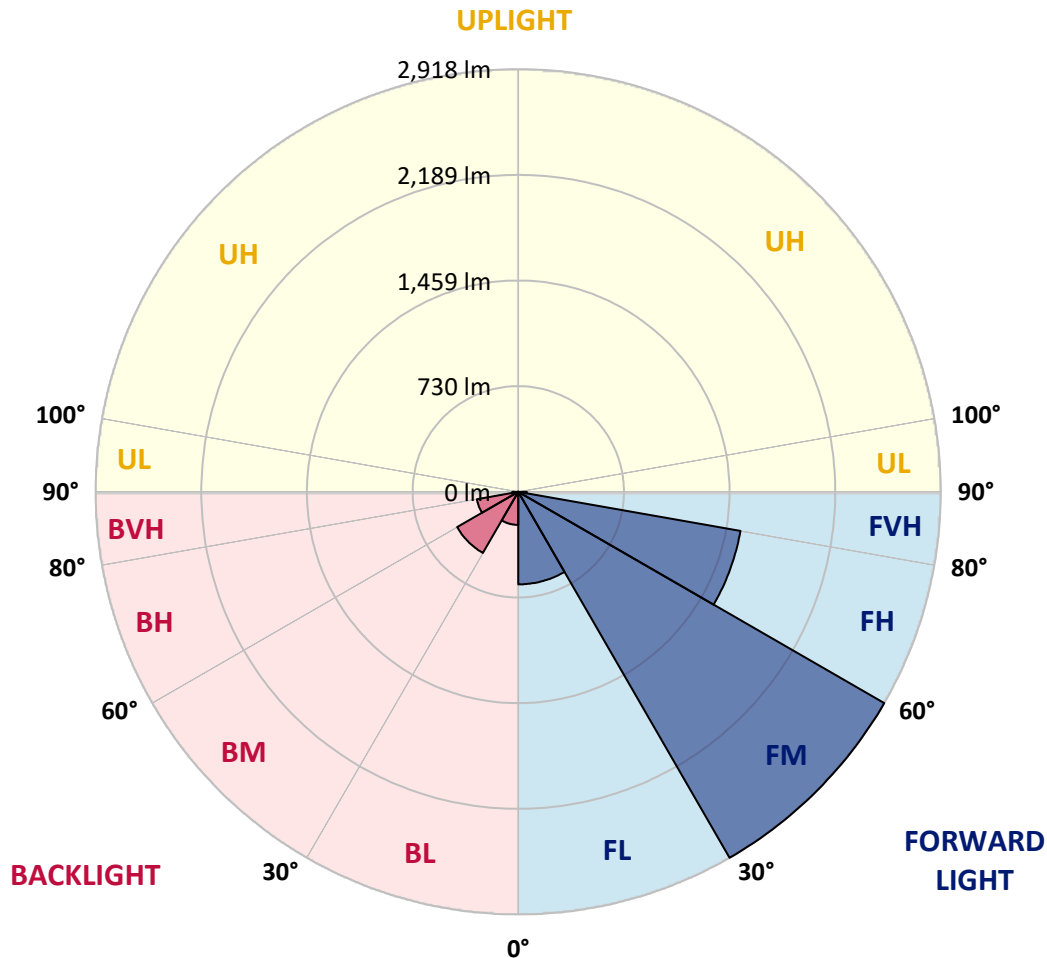
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.9	10.3			
FM (30°-60°)	2918.1	46.9			
FH (60°-80°)	1558.1	25.0			G1/1800
FVH (80°-90°)	59.2	1.0			G1/100
BL (0°-30°)	228.3	3.7	B1/500		
BM (30°-60°)	487.4	7.8	B1/1000		
BH (60°-80°)	290.0	4.7	B1/500		G1/500
BVH (80°-90°)	41.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1
2.5°	754.2	742.8	741.7	725.0	721.2	689.3	665.9	641.4	613.5	608.0	586.1
5°	968.8	967.7	953.1	925.9	904.6	850.1	796.2	739.2	676.7	666.5	617.1
7.5°	1161.8	1160.1	1148.9	1119.6	1088.7	1021.8	944.9	857.5	756.1	741.1	659.1
10°	1308.4	1307.7	1303.9	1282.4	1256.2	1192.0	1107.1	987.8	848.4	827.9	711.7
12.5°	1421.6	1422.8	1425.4	1417.8	1405.3	1350.6	1263.6	1125.9	946.8	926.5	770.2
15°	1498.2	1502.0	1515.1	1525.9	1532.4	1498.9	1414.6	1267.2	1057.0	1032.7	835.1
17.5°	1536.9	1541.1	1563.7	1596.2	1626.2	1622.8	1555.9	1401.9	1162.8	1139.4	904.8
20°	1570.2	1573.4	1598.8	1637.8	1690.8	1714.3	1676.7	1531.6	1278.8	1250.9	978.7
22.5°	1667.0	1671.0	1678.6	1700.8	1747.6	1790.7	1772.6	1654.3	1385.0	1359.0	1048.8
25°	1853.7	1858.5	1842.1	1823.3	1832.1	1862.1	1865.5	1766.2	1492.7	1463.4	1124.2
27.5°	2078.6	2085.6	2057.5	2009.1	1966.9	1955.3	1951.2	1857.9	1595.6	1561.6	1198.7
30°	2298.9	2310.9	2274.4	2211.6	2134.1	2079.6	2039.3	1947.7	1697.0	1664.4	1269.1
32.5°	2514.1	2509.2	2456.2	2395.0	2304.1	2235.9	2138.4	2044.0	1811.0	1773.6	1339.0
35°	2661.5	2663.2	2614.0	2541.3	2454.7	2402.4	2271.0	2147.9	1927.4	1893.0	1418.4
37.5°	2786.9	2779.1	2723.4	2655.6	2581.0	2558.6	2426.2	2262.3	2053.5	2015.9	1502.9
40°	2828.8	2819.7	2783.1	2734.4	2674.6	2672.7	2597.5	2392.0	2196.0	2158.8	1598.1
42.5°	2803.4	2791.8	2776.8	2763.5	2745.1	2753.6	2758.4	2544.1	2352.7	2311.1	1708.4
45°	2709.9	2692.3	2702.9	2731.8	2771.7	2819.5	2903.7	2712.4	2528.2	2493.4	1837.8
47.5°	2566.0	2550.2	2583.1	2645.0	2753.6	2874.4	3041.2	2898.2	2737.7	2703.1	2022.2
50°	2363.7	2368.4	2415.5	2528.0	2692.1	2899.7	3210.6	3144.3	3042.3	3010.0	2273.7
52.5°	2031.7	2032.6	2165.2	2350.0	2583.1	2886.6	3304.6	3458.8	3458.1	3419.1	2513.2
55°	1723.4	1742.2	1847.1	2092.7	2406.6	2834.3	3370.3	3611.7	3731.2	3685.4	2736.5
57.5°	1422.2	1433.2	1532.7	1779.3	2154.6	2694.7	3437.6	3795.2	4045.9	4017.0	3014.0
60°	1079.6	1096.5	1199.4	1427.3	1832.3	2446.9	3444.0	3986.7	4422.0	4392.9	3323.8
62.5°	700.7	729.9	826.2	1039.7	1442.5	2090.6	3297.0	4112.0	4778.5	4768.2	3598.8
65°	402.8	424.7	491.7	656.4	995.2	1643.3	2947.5	4063.8	4998.0	4992.0	3701.6
66°	329.0	342.8	394.1	513.0	821.1	1443.1	2744.3	3962.3	5019.7	5019.9	3689.8
67.5°	263.2	269.3	292.3	367.3	605.9	1143.8	2381.2	3738.2	4992.7	5000.1	3613.6
70°	217.7	220.9	228.1	246.3	330.7	689.8	1690.2	3155.9	4721.3	4727.0	3316.0
72.5°	195.4	197.3	200.0	202.5	233.4	385.4	1032.3	2524.6	4139.4	4146.8	2862.6
75°	177.0	178.0	177.6	177.8	195.8	245.6	533.5	1884.9	3347.0	3332.3	2192.8
77.5°	155.4	156.5	154.4	154.8	173.2	188.8	265.5	1319.6	2258.7	2154.4	1235.5
80°	131.4	132.2	131.4	132.8	150.8	142.6	154.4	742.4	998.7	944.7	439.3
82.5°	99.3	102.9	105.4	111.3	124.2	101.4	103.3	289.1	304.1	289.5	134.7
85°	43.5	53.0	79.4	85.1	93.3	60.8	67.8	117.8	123.8	120.0	49.0
87.5°	11.4	12.5	39.3	49.4	51.7	27.5	35.3	53.6	56.6	53.6	16.3
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°	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1
2.5°	574.5	564.1	545.5	529.0	516.6	508.1	499.7	495.5	492.9	490.4	490.8
5°	592.8	571.9	540.0	517.4	504.8	496.7	492.5	490.8	489.8	487.2	487.2
7.5°	620.5	590.9	547.0	523.8	513.8	507.7	505.2	504.3	503.1	500.1	500.5
10°	655.3	613.9	561.6	539.0	529.9	523.1	519.5	518.3	516.0	512.6	513.0
12.5°	696.3	642.5	580.8	557.1	546.2	537.1	531.2	527.6	523.6	519.1	519.3
15°	741.1	673.5	601.5	573.4	558.4	545.7	536.2	530.1	523.8	518.3	518.1
17.5°	786.5	703.5	617.3	582.3	562.0	545.3	532.4	522.9	515.1	508.3	507.7
20°	835.5	730.5	626.2	581.4	555.2	535.4	518.3	506.4	497.8	491.0	490.0
22.5°	885.3	755.9	627.7	572.8	540.2	516.0	498.0	484.9	476.0	469.1	466.5
25°	931.0	775.5	621.6	556.1	519.3	493.1	475.6	462.3	455.1	446.9	444.4
27.5°	972.6	789.2	609.3	534.7	495.9	470.1	453.6	442.2	434.4	428.1	426.0
30°	1009.9	796.6	589.2	509.4	471.8	448.4	434.4	426.6	419.9	411.8	410.4
32.5°	1045.4	796.6	563.5	481.7	447.9	429.2	420.9	416.1	408.5	400.6	398.5
35°	1080.9	791.8	533.1	452.8	426.0	415.4	415.0	409.3	397.7	387.1	384.4
37.5°	1118.3	781.8	498.8	425.8	408.0	409.3	412.9	400.2	383.7	368.7	364.7
40°	1160.5	768.1	463.4	402.3	393.0	406.6	407.2	387.1	355.0	341.3	337.7
42.5°	1210.2	754.4	430.4	381.6	381.2	398.3	396.4	358.8	339.6	332.6	330.7
45°	1275.4	746.6	399.2	362.0	371.9	385.0	378.0	343.2	335.2	331.2	329.5
47.5°	1378.3	750.6	370.4	346.4	362.6	371.7	343.8	336.9	331.2	326.3	324.6
50°	1507.1	748.3	347.2	335.6	352.1	357.8	328.4	328.6	325.7	320.2	317.6
52.5°	1604.0	730.1	332.2	329.5	342.8	333.1	318.7	320.6	319.1	311.1	308.3
55°	1697.6	714.5	324.6	327.1	336.0	302.2	307.3	311.9	310.5	302.6	301.4
57.5°	1814.0	711.5	320.0	327.8	330.3	286.8	296.3	302.4	301.4	298.0	297.4
60°	1956.5	712.4	315.7	328.8	324.0	275.4	286.0	293.8	294.4	293.8	293.4
62.5°	2034.9	689.3	305.2	325.9	312.8	265.5	275.2	286.6	286.8	288.1	287.9
65°	1968.3	620.5	285.5	315.5	294.0	257.2	265.9	278.4	275.2	280.9	280.9
66°	1903.7	580.8	275.8	308.8	286.0	254.1	262.9	274.1	270.1	277.9	277.9
67.5°	1771.7	513.8	258.3	294.4	274.6	249.6	259.6	267.2	261.7	273.3	272.4
70°	1530.5	397.5	223.0	261.9	255.8	243.1	254.9	253.2	245.2	262.9	259.6
72.5°	1290.4	302.0	179.1	219.2	227.2	234.9	248.4	235.5	225.3	237.8	230.4
75°	1001.3	227.0	141.5	170.4	192.0	222.0	240.6	215.0	200.4	199.2	195.1
77.5°	541.3	155.9	112.1	130.1	152.5	205.9	235.3	193.0	171.1	166.0	162.8
80°	214.4	101.4	81.5	98.6	106.7	182.7	222.6	167.5	141.1	136.0	131.2
82.5°	88.5	60.0	52.6	66.1	69.5	156.3	199.8	137.3	109.0	150.8	160.1
85°	38.0	32.9	31.3	34.2	39.3	109.6	159.0	104.8	117.6	105.0	83.4
87.5°	11.4	13.9	13.3	13.1	14.4	26.2	84.7	58.3	86.4	32.7	24.5
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)