

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: P322365

Luminaire Tested: **GLEON-SA1C-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3967 lumens  
Efficiency: N/A  
Efficacy: 67.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

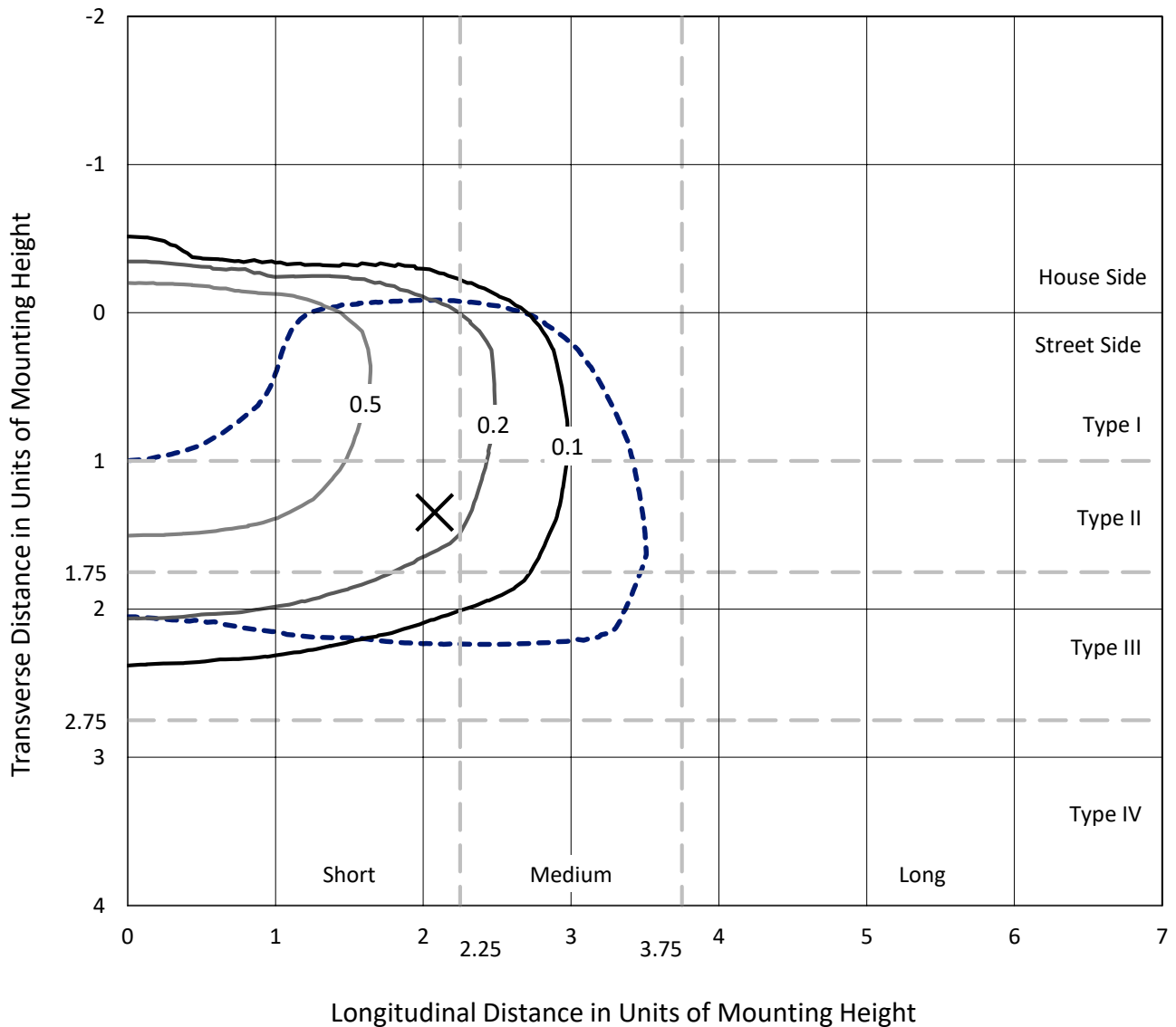
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

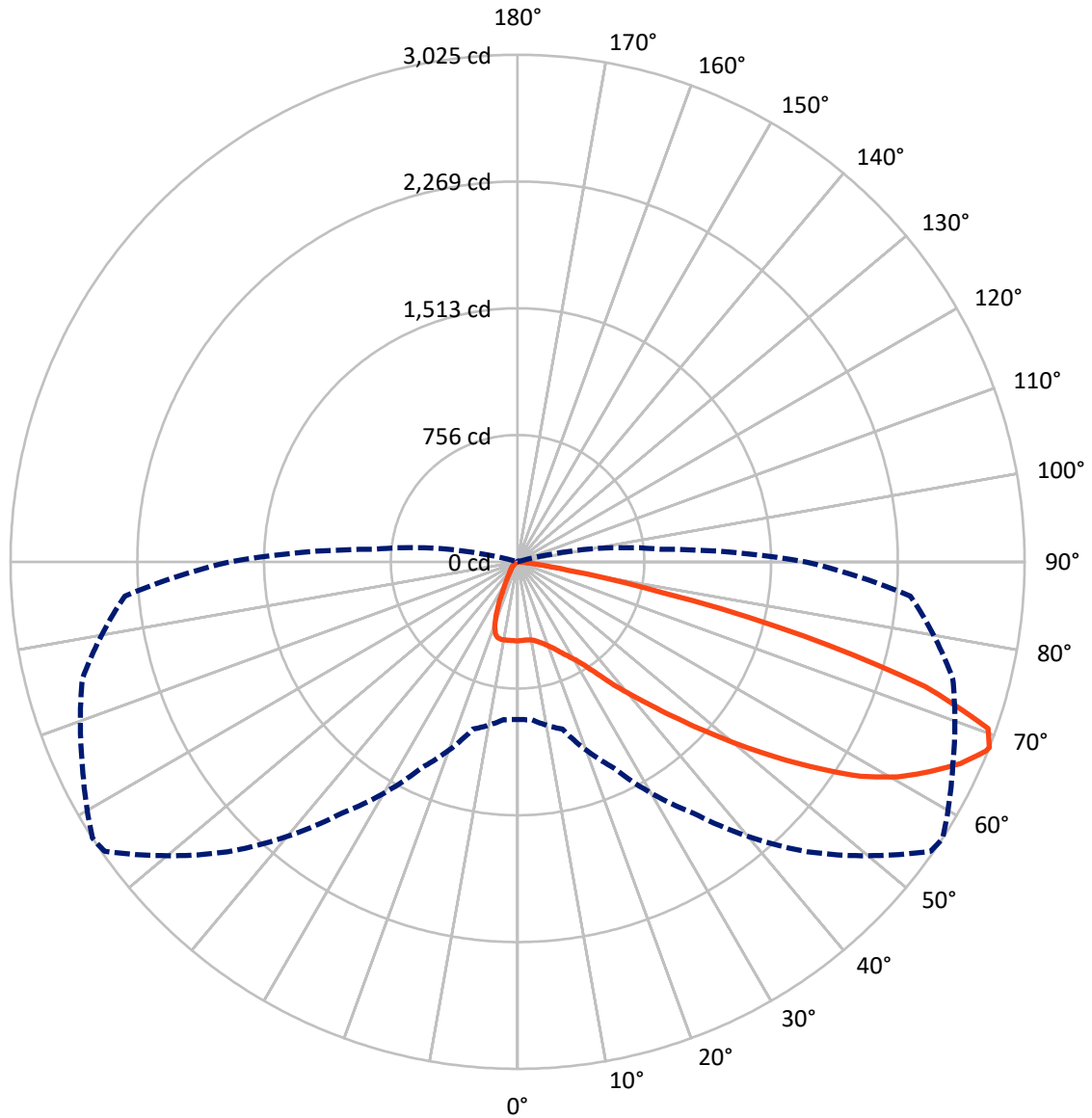
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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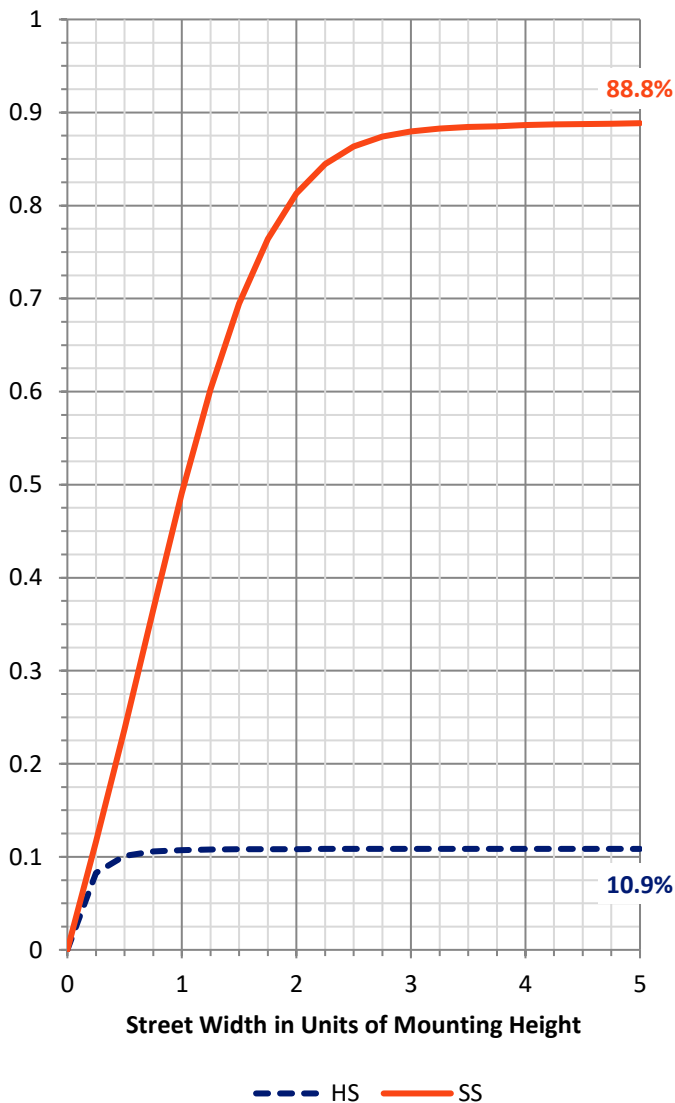
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	435.0	0.0	435.0
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3532.0	0.0	3532.0
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	3967.0	0.0	3967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.1
10°-20°	122.2	3.1
20°-30°	210.9	5.3
30°-40°	364.0	9.2
40°-50°	622.6	15.7
50°-60°	996.1	25.1
60°-70°	1150.9	29.0
70°-80°	439.8	11.1
80°-90°	16.5	0.4
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°	3967.0	100.0
0°-180°	3967.0	100.0

**Coefficient of Utilization**



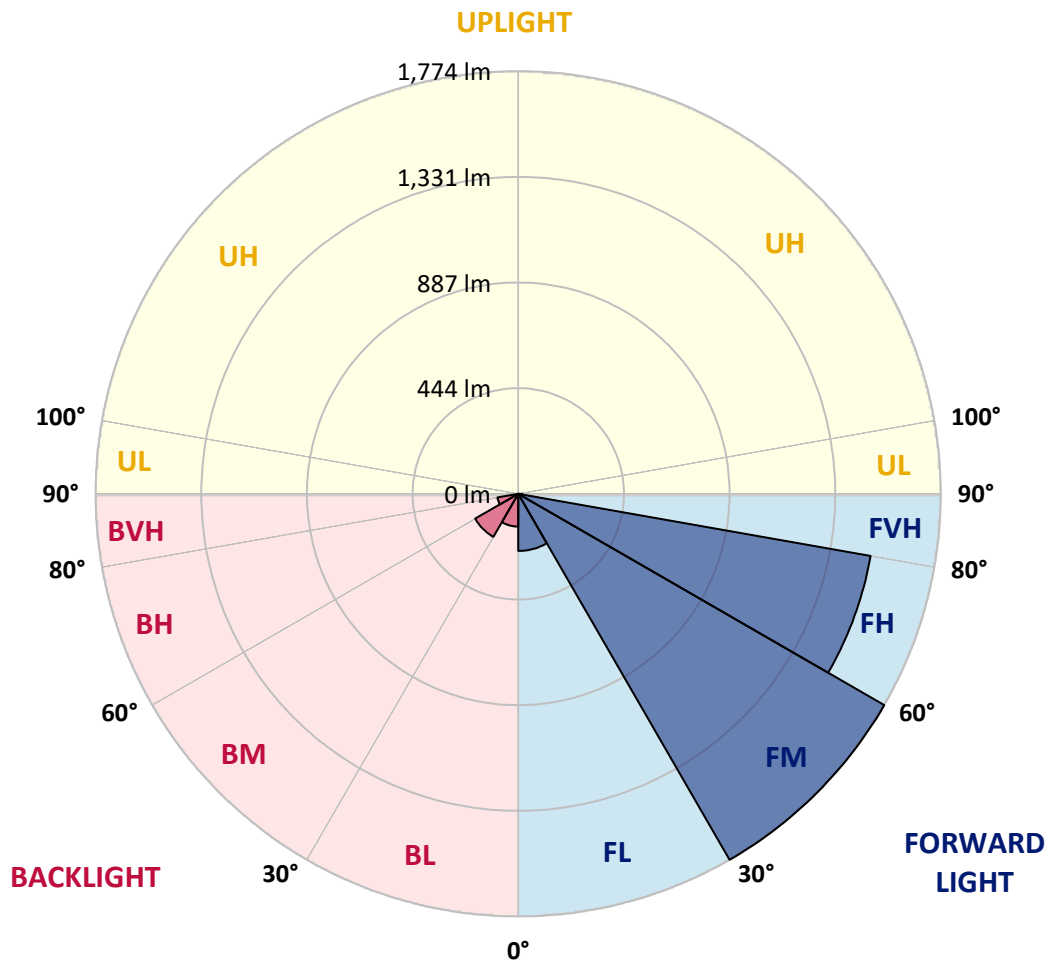
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.8	6.0			
FM (30°-60°)	1774.0	44.7			
FH (60°-80°)	1502.0	37.9			G1/1800
FVH (80°-90°)	16.2	0.4			G1/100
BL (0°-30°)	137.5	3.5	B1/500		
BM (30°-60°)	208.6	5.3	B0/220		
BH (60°-80°)	88.6	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	460.3	462.4	463.9	464.8	465.9	468.4	469.1	470.3	470.8	470.8	472.1
5°	442.1	444.4	447.6	450.2	455.4	462.2	467.1	468.9	472.3	475.3	477.0
7.5°	425.2	427.9	431.6	437.8	446.8	457.7	467.8	470.4	477.0	483.4	486.6
10°	414.4	416.4	421.3	430.1	441.9	457.1	471.4	474.6	485.8	496.5	502.5
12.5°	410.6	412.5	417.5	427.5	442.1	459.9	479.6	484.3	500.8	516.4	524.8
15°	416.0	416.4	421.9	431.2	445.7	466.9	493.3	499.0	519.8	540.0	550.5
17.5°	437.1	435.4	438.2	442.3	453.8	476.1	507.8	516.2	544.0	567.8	577.7
20°	489.6	489.6	483.2	471.9	472.1	490.3	527.3	536.8	570.8	598.4	607.4
22.5°	579.4	577.7	565.0	537.4	512.1	514.9	551.1	563.5	603.1	632.5	635.5
25°	687.5	685.4	665.7	626.9	583.0	554.7	583.4	597.6	641.5	667.6	661.4
27.5°	801.9	800.2	780.7	732.5	670.0	618.1	621.8	635.3	680.7	706.4	686.7
30°	912.8	913.3	894.0	844.5	773.8	698.9	670.6	678.5	718.8	744.9	716.7
32.5°	1018.2	1018.9	1002.2	946.9	880.9	792.9	738.1	736.1	763.1	788.8	756.5
35°	1112.2	1114.0	1102.6	1059.6	989.7	897.6	825.7	820.8	825.9	855.0	817.5
37.5°	1202.8	1203.9	1195.2	1159.0	1100.5	1012.5	936.4	929.5	918.6	940.9	897.9
40°	1302.0	1299.2	1289.2	1256.4	1206.1	1139.5	1055.3	1043.3	1024.4	1044.2	1003.7
42.5°	1394.3	1391.1	1392.8	1355.6	1313.2	1270.1	1193.9	1173.3	1162.2	1185.1	1133.5
45°	1509.6	1507.9	1513.6	1481.3	1447.0	1415.7	1352.8	1330.3	1325.4	1352.3	1290.5
47.5°	1623.5	1627.6	1645.1	1631.4	1617.5	1589.9	1521.1	1510.9	1513.9	1546.4	1456.2
50°	1718.4	1723.3	1771.1	1786.9	1806.9	1790.8	1721.8	1715.6	1727.4	1756.7	1634.4
52.5°	1787.1	1797.0	1856.5	1929.1	2002.2	2013.1	1944.2	1938.6	1954.6	1959.1	1772.1
55°	1834.7	1843.5	1910.9	2043.7	2192.6	2239.5	2196.7	2175.0	2172.0	2127.5	1916.9
57.5°	1843.1	1842.2	1939.0	2117.8	2341.9	2462.9	2435.9	2414.5	2353.0	2283.2	2082.9
60°	1795.5	1800.9	1913.3	2143.5	2435.7	2631.9	2634.0	2606.2	2510.4	2434.6	2243.8
62.5°	1648.8	1670.9	1784.4	2076.1	2434.6	2700.0	2779.2	2758.0	2643.4	2558.6	2407.0
65°	1411.0	1418.8	1527.1	1845.4	2270.1	2671.5	2909.9	2902.0	2763.2	2679.0	2490.9
67.5°	1030.4	1013.3	1127.0	1453.2	1921.9	2505.3	3003.7	3013.6	2855.7	2703.8	2401.6
68°	940.3	945.4	1033.9	1356.2	1830.8	2446.6	3009.9	3025.1	2864.9	2687.6	2352.8
70°	560.5	570.2	649.2	933.8	1392.8	2114.4	2943.1	2977.8	2810.1	2521.2	2035.0
72.5°	143.1	154.8	229.4	417.9	795.5	1489.7	2484.5	2543.2	2439.8	2045.4	1373.8
75°	58.9	61.9	82.0	137.7	296.4	671.2	1637.6	1763.2	1691.4	1224.5	620.9
77.5°	40.7	42.8	52.7	76.3	128.3	227.5	802.8	893.6	805.1	417.9	135.4
80°	29.3	31.0	37.7	50.8	73.7	81.2	261.7	302.6	240.3	91.7	33.6
82.5°	17.4	18.8	28.1	36.2	44.8	38.8	65.1	73.9	69.6	45.6	15.0
85°	8.6	10.1	18.9	25.9	24.2	16.3	19.9	22.1	27.4	27.8	8.1
87.5°	0.6	1.1	11.1	15.6	6.8	3.8	5.8	7.1	9.8	13.7	3.4
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°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	472.7	472.9	471.6	471.0	471.4	469.1	468.2	468.6	468.6	469.1	468.2
5°	477.4	477.4	475.1	472.1	470.4	466.1	463.3	462.6	462.0	461.6	460.9
7.5°	487.5	486.4	482.5	475.9	470.3	460.9	453.8	450.0	448.1	447.4	446.8
10°	503.8	501.8	495.2	483.0	470.1	453.4	437.8	426.7	417.5	413.8	411.5
12.5°	525.8	522.8	511.7	491.5	468.8	438.0	404.2	371.8	341.6	329.2	323.0
15°	551.1	546.8	529.3	498.6	461.1	403.3	330.0	273.1	231.3	215.5	208.8
17.5°	576.8	571.2	544.7	503.1	438.0	331.5	231.5	174.8	146.9	139.4	136.7
20°	602.7	594.4	558.0	499.7	385.8	239.0	152.7	127.7	119.7	117.4	116.7
22.5°	627.3	614.5	570.1	486.6	305.6	160.4	120.8	112.9	110.3	109.0	108.6
25°	648.6	630.8	580.6	446.1	216.3	121.2	108.8	106.2	102.8	100.4	100.5
27.5°	668.7	647.1	586.9	379.3	144.2	103.5	100.7	97.2	91.0	87.4	87.4
30°	692.9	668.9	591.6	291.9	106.2	91.5	89.3	83.8	75.4	70.7	70.7
32.5°	729.3	701.9	588.6	204.8	88.0	80.5	75.2	67.7	58.5	54.0	53.8
35°	785.0	752.9	567.2	134.3	77.7	70.0	61.5	52.3	44.3	40.5	40.3
37.5°	860.0	821.2	519.2	96.0	69.6	60.2	50.1	40.0	34.0	31.5	31.3
40°	957.4	900.6	450.6	77.8	62.1	50.8	38.6	31.0	26.8	24.9	25.1
42.5°	1074.3	985.5	368.2	67.2	54.8	41.8	30.2	24.4	21.8	20.4	20.1
45°	1204.1	1069.4	281.9	59.8	47.5	33.8	23.6	19.3	17.3	16.5	16.5
47.5°	1346.8	1151.0	206.3	53.5	39.6	26.1	18.9	15.8	14.1	13.5	13.3
50°	1476.4	1207.6	148.7	46.7	32.5	20.6	15.4	13.1	12.0	11.3	11.3
52.5°	1584.5	1225.4	109.5	39.4	26.3	16.5	12.8	11.3	10.1	9.6	9.6
55°	1679.6	1218.1	81.4	32.5	21.2	13.5	10.9	9.6	8.6	8.1	8.1
57.5°	1770.7	1194.5	60.8	26.4	17.1	10.9	9.2	8.1	7.1	6.8	6.8
60°	1845.2	1155.1	45.2	21.4	13.7	8.8	7.7	6.6	5.8	5.3	5.3
62.5°	1905.6	1111.6	33.2	17.6	10.9	6.9	6.0	5.4	4.3	3.8	3.8
65°	1906.0	1039.4	24.9	14.6	8.4	5.4	4.5	4.3	2.8	2.3	2.1
67.5°	1768.1	896.1	19.1	12.6	6.6	4.1	3.4	3.6	1.5	0.9	0.8
68°	1718.0	859.7	18.0	12.4	6.2	3.9	3.2	3.6	1.3	0.8	0.6
70°	1448.5	683.9	14.4	12.0	5.4	3.0	2.6	3.6	1.1	0.6	0.4
72.5°	926.4	396.9	10.7	9.6	4.1	2.3	1.7	3.2	1.1	0.4	0.2
75°	394.3	123.1	7.3	6.8	2.4	1.7	1.1	2.1	0.8	0.2	0.0
77.5°	83.1	27.8	4.3	4.1	1.7	1.1	0.8	0.6	0.2	0.0	0.0
80°	21.4	8.1	2.3	2.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	6.8	3.2	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.2	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)