

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: P322025

Luminaire Tested: **GLEON-SA1A-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2552 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 34  
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

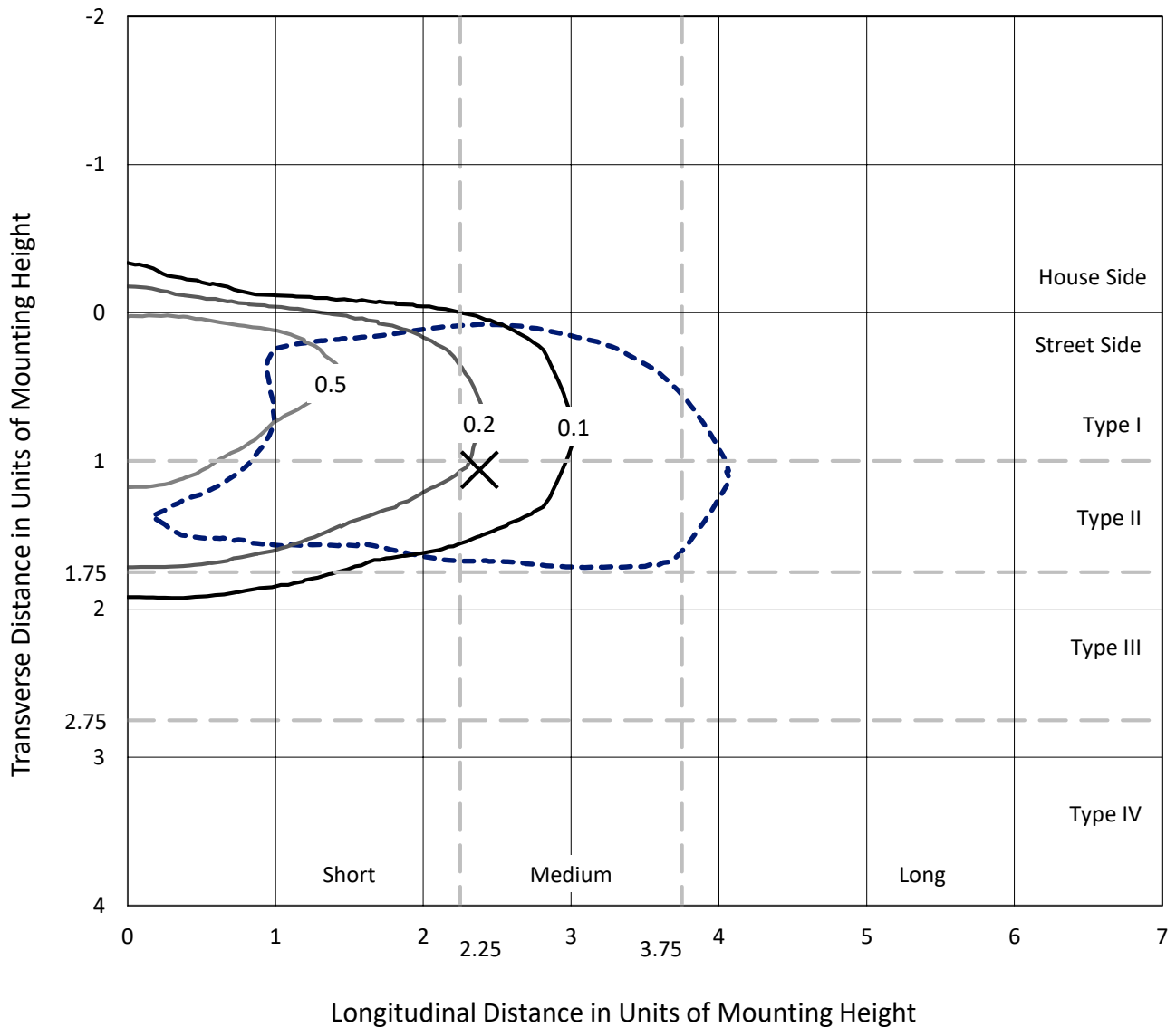




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### Iso-Footcandle Lines of Horizontal Illumination

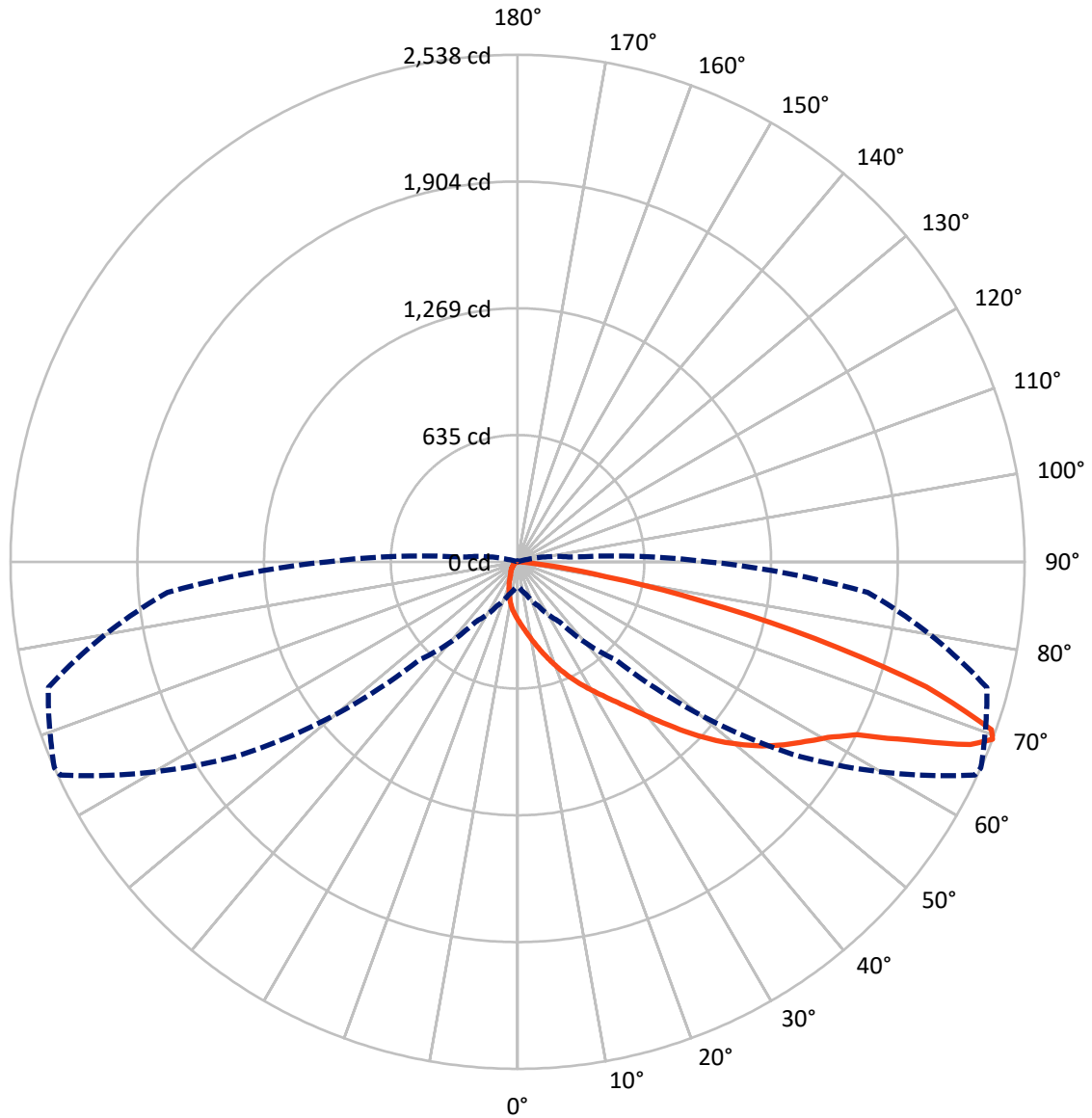
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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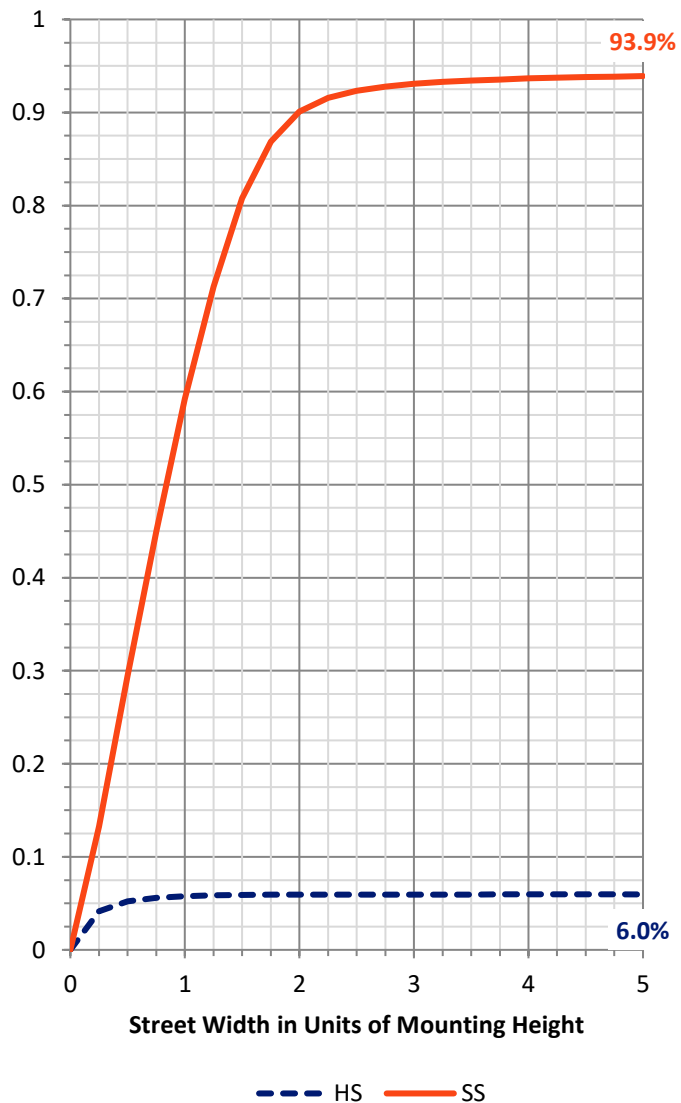
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	153.1	0.0	153.1
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	2398.9	0.0	2398.9
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	2552.0	0.0	2552.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	1.1
10°-20°	83.6	3.3
20°-30°	145.5	5.7
30°-40°	255.3	10.0
40°-50°	427.3	16.7
50°-60°	628.1	24.6
60°-70°	644.9	25.3
70°-80°	318.4	12.5
80°-90°	21.0	0.8
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°	2552.0	100.0
0°-180°	2552.0	100.0

**Coefficient of Utilization**

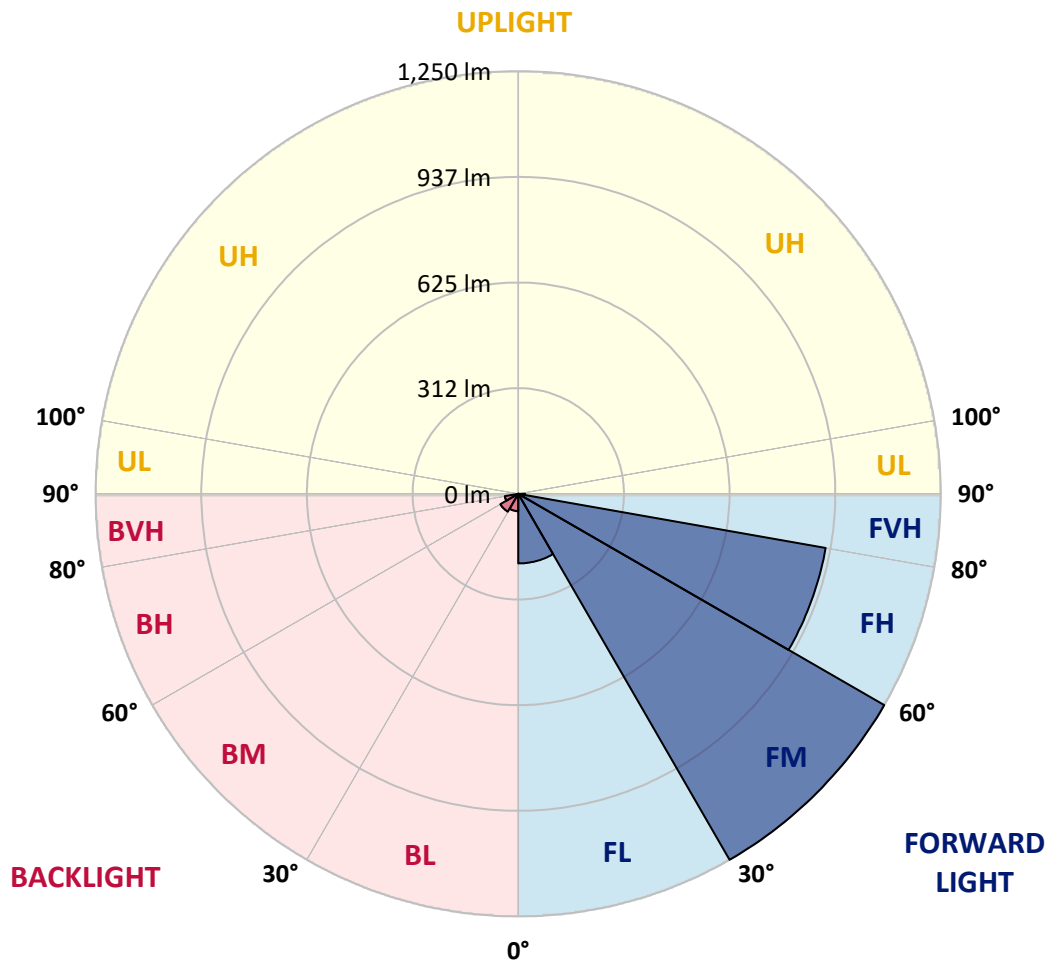


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.9	8.1			
FM (30°-60°)	1249.6	49.0			
FH (60°-80°)	922.9	36.2			G1/1800
FVH (80°-90°)	20.5	0.8			G1/100
BL (0°-30°)	51.2	2.0	B0/110		
BM (30°-60°)	61.0	2.4	B0/220		
BH (60°-80°)	40.3	1.6	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4
2.5°	341.8	340.4	339.8	337.1	332.5	329.0	322.2	314.3	312.9	305.2	295.9
5°	386.2	385.0	384.1	380.4	375.6	366.8	354.4	339.8	337.0	322.4	303.8
7.5°	417.1	419.3	419.3	416.9	410.9	404.2	389.1	369.1	365.6	343.3	314.3
10°	435.2	437.8	439.9	441.9	441.1	438.4	424.1	401.6	397.3	367.8	326.5
12.5°	436.9	439.5	445.3	453.9	462.3	468.4	459.4	437.6	432.7	396.1	341.1
15°	427.4	430.2	439.2	455.9	476.1	493.8	496.7	477.5	472.5	429.9	359.3
17.5°	410.9	412.7	425.6	448.7	480.5	513.0	530.5	520.2	515.6	468.6	379.5
20°	398.7	400.0	411.3	436.1	477.8	525.0	562.5	565.7	560.9	510.1	401.5
22.5°	419.6	422.1	422.4	434.2	470.5	530.9	590.7	610.4	606.8	554.1	423.0
25°	477.0	479.8	470.5	463.3	476.7	533.6	614.8	656.2	653.3	601.5	444.7
27.5°	552.7	555.6	543.8	522.1	509.1	543.6	636.2	702.8	702.7	651.6	468.1
30°	627.2	630.1	617.9	596.2	566.4	572.1	654.8	751.5	752.2	703.4	493.0
32.5°	705.2	708.9	696.4	668.5	637.3	621.3	680.9	800.5	804.6	763.4	521.0
35°	793.9	794.4	776.9	747.6	711.8	687.2	722.7	855.4	865.2	837.7	556.5
37.5°	881.0	884.5	870.1	824.0	791.0	763.2	784.9	924.0	937.9	928.5	602.9
40°	945.5	952.9	950.8	901.1	869.8	849.9	862.1	1005.6	1023.3	1034.2	661.5
42.5°	985.9	991.5	1001.0	971.0	942.7	945.9	953.2	1100.6	1122.4	1154.7	728.7
45°	1032.4	1035.0	1042.9	1029.7	1010.6	1043.5	1049.9	1207.6	1230.6	1284.2	803.4
47.5°	1089.1	1095.4	1097.6	1085.5	1076.7	1129.8	1143.2	1305.0	1337.1	1423.0	882.4
50°	1161.3	1163.0	1166.8	1158.9	1150.2	1204.0	1226.8	1407.2	1436.4	1562.3	960.4
52.5°	1232.0	1238.1	1251.2	1246.2	1242.7	1267.2	1301.3	1499.3	1531.9	1678.4	1038.2
55°	1252.4	1257.6	1302.8	1333.7	1362.3	1345.0	1372.6	1581.8	1617.1	1782.2	1113.1
57.5°	1171.0	1181.6	1259.9	1340.4	1459.0	1465.9	1470.6	1666.6	1698.2	1861.7	1191.0
60°	965.5	967.5	1096.0	1234.1	1443.0	1571.5	1613.6	1757.6	1784.1	1935.8	1284.4
62.5°	614.1	635.0	776.0	970.9	1273.8	1556.3	1786.6	1895.3	1905.0	2024.6	1418.2
65°	292.5	306.1	407.6	599.9	922.7	1360.7	1905.9	2144.4	2148.7	2200.7	1597.0
67.5°	161.9	168.5	216.8	322.9	539.4	962.3	1857.7	2439.4	2443.5	2380.6	1753.8
69°	126.7	132.2	170.3	243.4	365.7	691.6	1681.1	2525.8	2538.1	2432.1	1759.4
70°	107.5	113.0	146.7	205.6	294.1	534.4	1496.4	2504.4	2517.3	2427.3	1717.8
72.5°	65.8	69.0	97.7	144.7	197.1	268.8	922.8	2118.0	2139.9	2226.6	1476.4
75°	44.4	46.1	61.1	99.9	141.0	138.4	479.4	1492.9	1540.4	1732.0	1090.4
77.5°	31.8	33.3	41.0	64.6	98.8	91.4	217.1	927.8	937.9	1038.8	594.7
80°	18.1	19.5	29.0	38.4	67.0	61.0	86.3	443.2	448.2	445.5	198.5
82.5°	9.5	10.7	15.9	25.3	43.0	39.9	35.9	148.4	149.1	124.0	43.5
85°	1.8	2.2	7.9	17.3	22.2	17.3	14.7	34.8	35.5	31.4	10.8
87.5°	0.0	0.1	3.2	3.9	4.4	4.5	4.7	6.8	7.3	9.8	2.9
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°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4
2.5°	291.8	287.4	279.0	269.3	261.8	254.4	248.6	242.5	240.4	239.3	239.2
5°	294.7	285.5	267.8	249.6	234.7	220.6	210.5	201.0	196.5	194.4	193.6
7.5°	299.5	284.7	256.2	228.5	207.0	189.5	175.5	165.1	159.9	157.7	156.8
10°	305.2	283.8	242.8	206.2	178.8	160.6	146.8	136.5	130.8	128.4	127.2
12.5°	311.9	282.1	227.3	183.6	154.7	136.5	119.8	107.0	100.5	97.7	96.4
15°	320.1	280.4	211.0	162.4	133.5	111.3	93.0	84.4	83.0	82.5	82.7
17.5°	328.2	277.7	193.3	141.5	111.2	86.9	77.6	77.1	77.3	77.3	77.3
20°	335.5	271.6	174.1	123.5	89.9	73.3	71.4	70.5	69.9	69.5	68.8
22.5°	341.2	263.5	155.5	105.7	73.5	67.2	64.1	61.5	59.3	57.8	57.1
25°	345.1	252.7	138.5	88.6	66.1	61.1	55.6	51.2	47.8	45.7	44.8
27.5°	348.0	241.1	123.4	74.2	61.0	54.1	46.9	41.6	38.1	36.2	35.5
30°	350.1	227.9	110.1	65.2	55.3	46.7	39.0	33.8	31.3	30.3	29.8
32.5°	352.0	213.2	97.5	61.0	49.9	39.9	32.7	28.7	27.2	25.9	25.6
35°	356.9	199.6	85.5	56.5	44.5	34.1	28.1	25.2	23.6	22.9	22.7
37.5°	368.4	189.6	73.9	51.9	39.0	29.5	24.6	22.5	21.1	20.4	20.1
40°	386.9	184.5	64.2	46.9	33.7	25.9	22.3	20.4	18.8	17.7	17.5
42.5°	414.2	185.2	57.5	41.9	29.5	23.2	20.1	17.8	16.1	15.2	14.9
45°	447.3	190.5	52.7	37.1	25.9	21.0	17.7	15.3	13.7	12.8	12.6
47.5°	483.2	199.2	48.8	32.7	23.2	18.9	15.3	12.7	11.4	10.7	10.5
50°	521.0	207.5	44.8	28.5	20.7	16.8	12.8	10.5	9.5	8.8	8.6
52.5°	559.3	217.2	41.2	24.6	18.7	14.4	10.7	8.6	7.8	7.3	7.0
55°	600.5	224.5	37.7	21.6	16.6	12.2	8.8	7.2	6.4	5.8	5.7
57.5°	649.0	235.8	34.1	18.7	14.2	10.2	7.3	5.7	5.1	4.5	4.4
60°	714.4	249.0	30.2	16.5	11.6	8.4	5.9	4.6	3.9	3.4	3.3
62.5°	800.7	263.6	25.3	14.4	9.5	6.8	4.7	3.6	2.8	2.2	2.2
65°	910.2	287.5	20.7	12.1	7.8	5.6	3.6	2.7	1.6	1.0	1.0
67.5°	974.1	291.6	16.7	9.9	6.3	4.7	3.0	1.8	0.5	0.1	0.0
69°	953.6	267.8	14.2	8.5	5.5	4.5	2.8	1.3	0.2	0.0	0.0
70°	915.0	244.8	12.5	7.5	5.0	4.2	2.7	1.0	0.2	0.0	0.0
72.5°	756.1	174.3	9.5	5.6	3.6	3.8	2.4	0.6	0.2	0.0	0.0
75°	550.8	105.9	6.8	3.9	2.3	2.8	1.7	0.2	0.1	0.0	0.0
77.5°	306.4	49.9	4.2	2.2	1.5	1.7	0.8	0.0	0.0	0.0	0.0
80°	99.5	13.6	1.9	1.2	0.8	1.0	0.4	0.0	0.0	0.0	0.0
82.5°	18.4	3.9	1.1	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	0.1	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)