

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: P319465

Luminaire Tested: **GLEON-SA1A-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
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-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3513 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

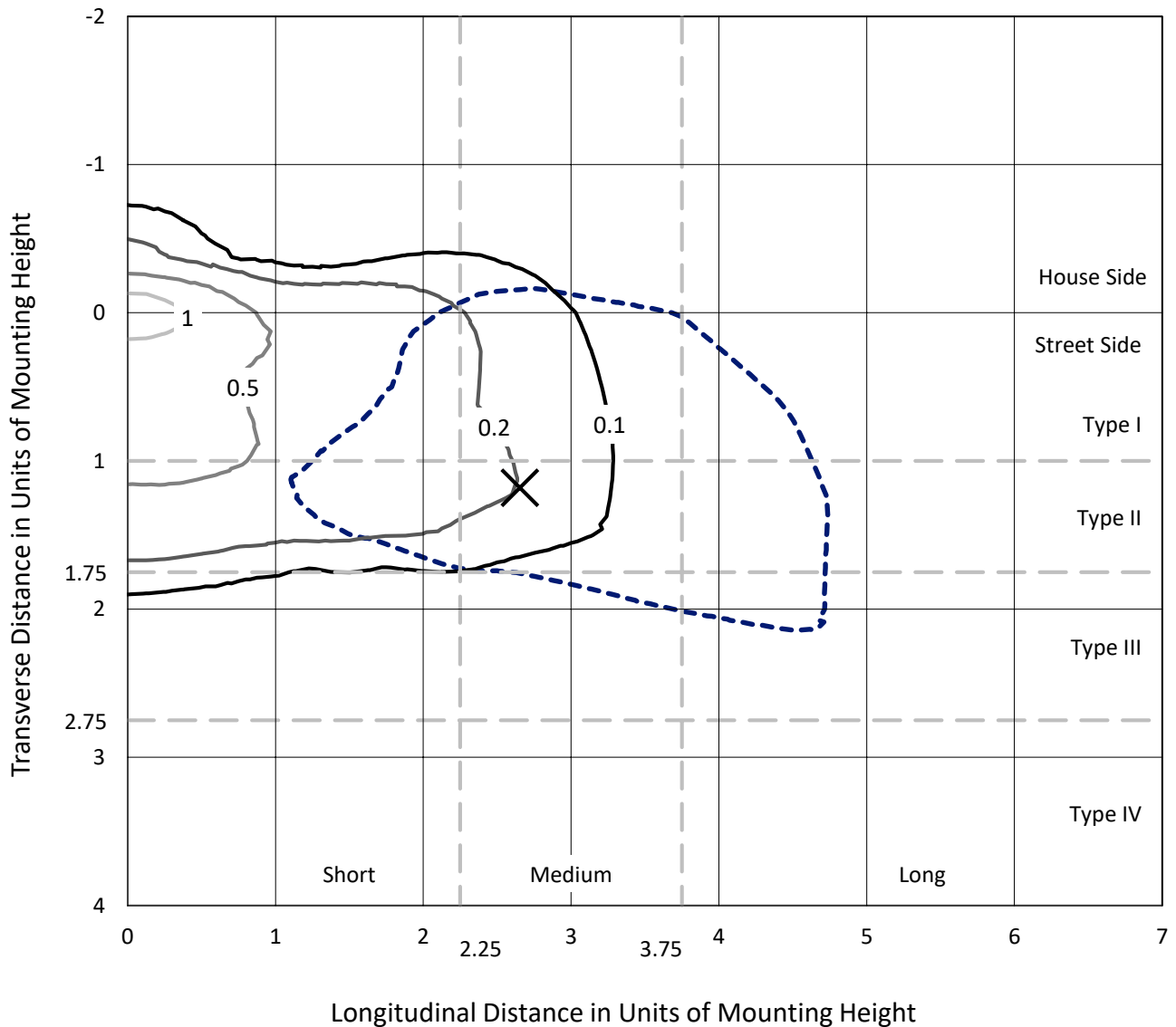
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

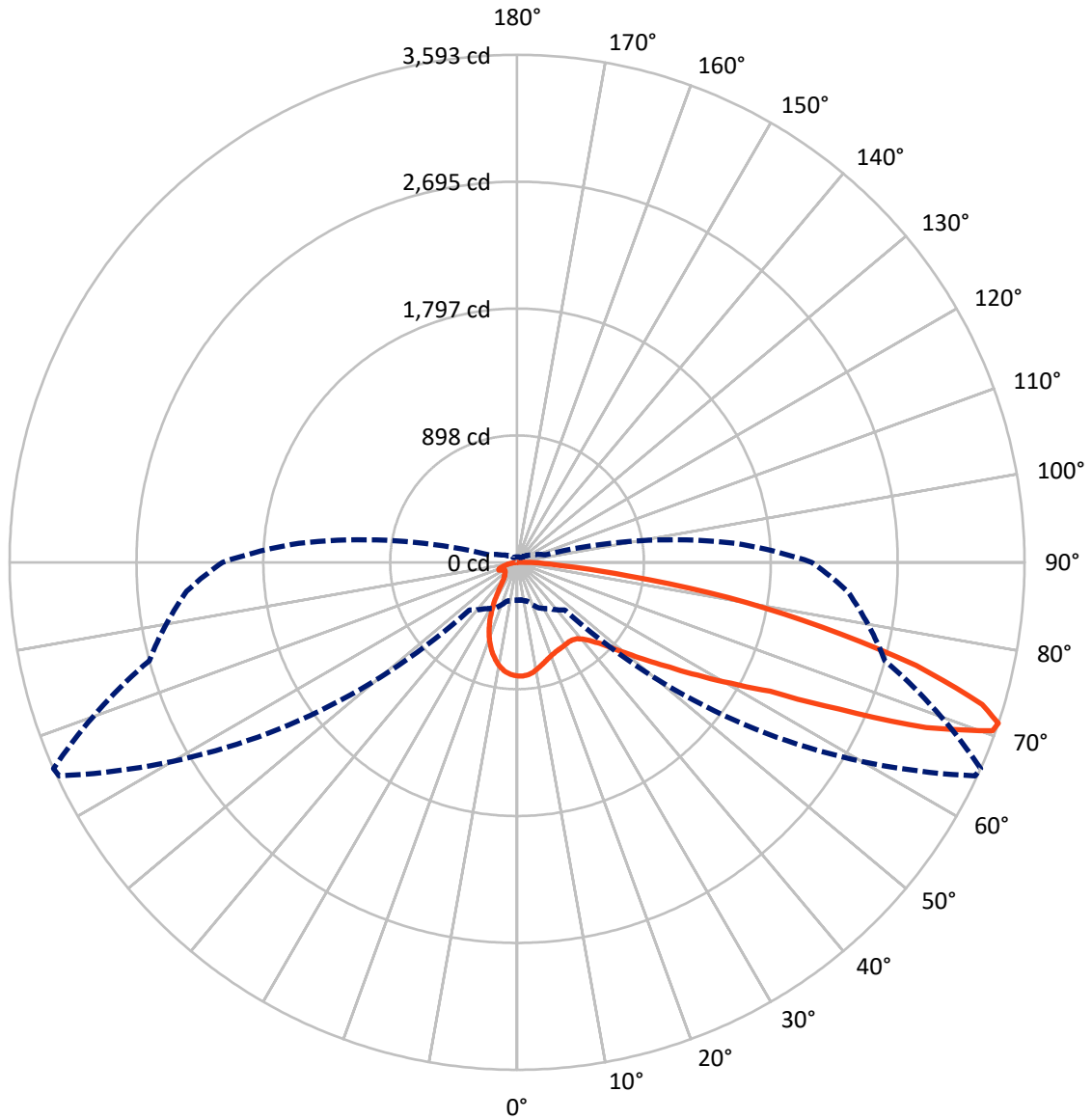
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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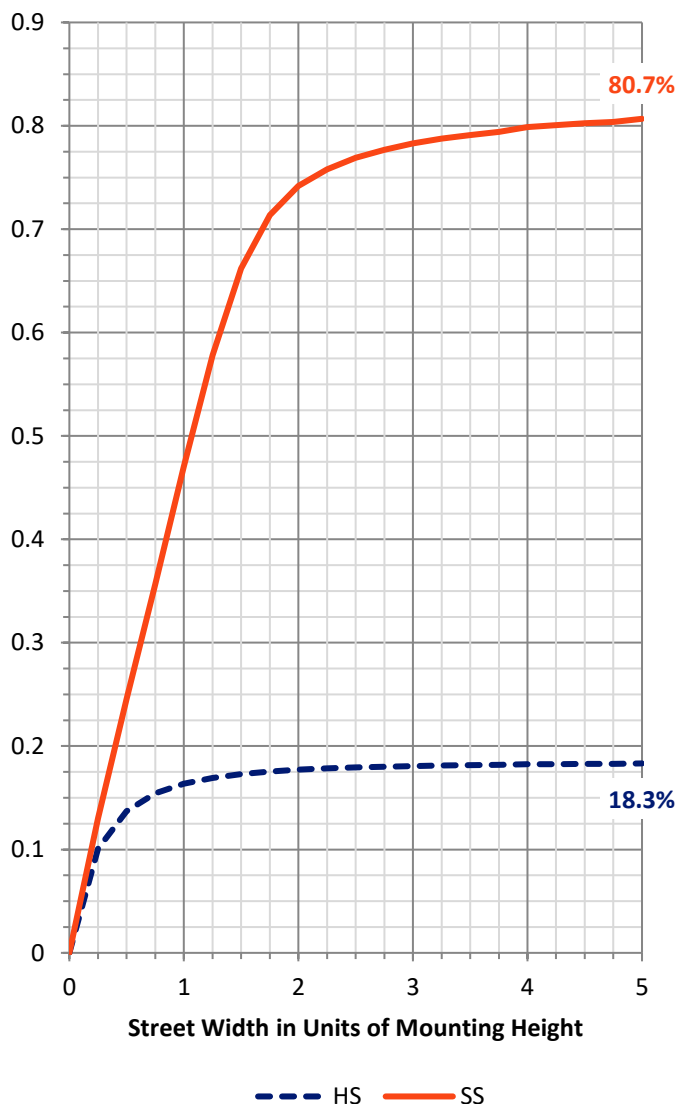
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	651.1	0.0	651.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	2861.9	0.0	2861.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	3513.0	0.0	3513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	2.0
10°-20°	169.9	4.8
20°-30°	228.2	6.5
30°-40°	300.2	8.5
40°-50°	436.7	12.4
50°-60°	682.2	19.4
60°-70°	854.6	24.3
70°-80°	651.9	18.6
80°-90°	118.4	3.4
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°	3513.0	100.0
0°-180°	3513.0	100.0

**Coefficient of Utilization**

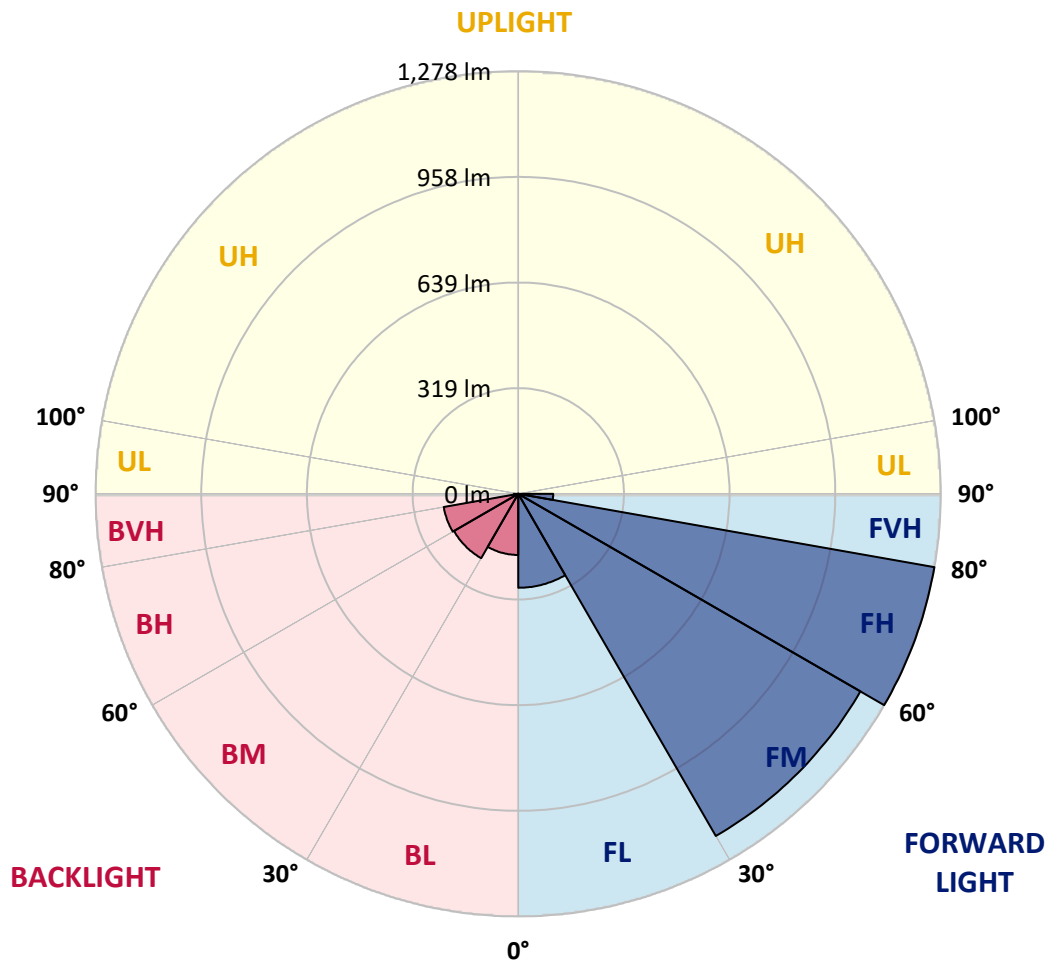


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.1	8.1			
FM (30°-60°)	1194.6	34.0			
FH (60°-80°)	1277.7	36.4			G1/1800
FVH (80°-90°)	105.6	3.0			G2/225
BL (0°-30°)	184.9	5.3	B1/500		
BM (30°-60°)	224.6	6.4	B1/1000		
BH (60°-80°)	228.8	6.5	B1/500		G1/500
BVH (80°-90°)	12.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	789.8	788.6	792.3	796.0	797.5	799.9	803.5	805.6	805.5	805.9	804.6
5°	737.4	735.9	743.1	749.1	760.5	773.3	789.0	800.2	800.4	806.7	808.4
7.5°	687.8	686.7	695.1	704.7	717.9	737.6	762.9	786.9	788.4	805.5	811.4
10°	648.1	647.8	655.9	666.4	681.8	703.7	732.8	768.0	770.2	799.7	811.9
12.5°	617.0	617.5	624.5	636.4	652.7	675.6	707.1	746.8	750.3	790.4	809.1
15°	594.1	596.0	601.7	613.7	629.7	653.0	685.4	727.1	732.5	780.1	807.5
17.5°	581.0	583.2	587.2	597.1	612.2	634.6	665.3	711.0	715.9	772.3	807.7
20°	577.1	578.9	581.2	587.3	600.0	620.4	649.4	696.4	701.7	765.9	808.9
22.5°	584.7	586.1	586.3	585.8	593.6	610.2	637.9	685.8	691.4	761.8	809.7
25°	601.1	602.9	601.6	597.1	594.6	604.8	631.9	678.7	684.3	758.8	808.0
27.5°	625.7	626.0	624.9	619.1	607.1	605.4	630.1	674.6	680.0	755.3	804.5
30°	659.2	660.8	658.8	651.0	631.3	615.1	632.3	670.6	675.5	750.8	798.8
32.5°	698.4	702.3	702.1	693.9	665.8	636.8	641.3	668.2	671.9	746.1	791.9
35°	739.0	744.4	754.3	750.8	716.0	671.1	658.5	672.1	674.6	745.4	787.1
37.5°	781.2	786.6	807.1	816.5	775.8	720.2	685.7	685.8	687.0	752.8	786.7
40°	825.4	831.1	861.9	886.5	853.3	782.4	729.4	714.4	713.1	771.0	793.8
42.5°	887.2	892.3	929.3	960.7	939.3	862.1	790.0	758.5	755.8	806.7	816.8
45°	965.5	969.8	1009.1	1042.7	1031.7	953.1	866.0	819.3	818.8	866.1	863.2
47.5°	1058.5	1061.9	1097.2	1129.7	1133.7	1057.8	961.6	913.1	905.2	947.6	935.1
50°	1155.4	1159.2	1183.2	1218.1	1247.8	1197.9	1084.6	1027.9	1017.4	1055.2	1037.0
52.5°	1219.6	1224.5	1245.4	1289.7	1376.2	1351.4	1230.0	1167.2	1151.2	1185.6	1171.7
55°	1190.9	1202.1	1234.0	1305.0	1478.8	1586.0	1409.4	1329.6	1311.5	1340.1	1331.9
57.5°	1060.8	1076.1	1119.6	1229.2	1493.2	1792.7	1680.6	1520.9	1508.1	1499.9	1503.6
60°	823.0	837.6	891.6	1034.4	1392.7	1943.6	2088.7	1756.6	1738.2	1660.2	1663.6
62.5°	582.4	575.0	612.0	716.5	1131.6	1961.3	2553.2	2072.0	2011.4	1829.5	1814.6
65°	444.2	442.5	459.1	492.3	685.4	1749.4	2829.8	2602.0	2507.3	2028.7	1993.5
67.5°	365.0	361.9	378.3	426.7	441.4	1128.6	2835.9	3217.0	3123.9	2276.6	2200.4
70°	300.1	296.7	312.0	374.4	407.9	572.4	2386.7	3577.1	3572.1	2590.5	2356.7
71°	269.0	266.6	284.9	354.3	400.7	477.0	2060.7	3578.1	3593.0	2696.8	2347.4
72.5°	219.1	219.9	239.3	315.4	395.4	421.2	1514.6	3411.3	3442.8	2798.0	2263.6
75°	145.5	146.3	171.7	242.6	383.4	412.1	832.4	2862.4	2920.4	2737.4	2065.6
77.5°	97.8	97.5	114.9	166.4	334.0	412.1	488.1	2140.9	2204.6	2178.1	1592.4
80°	67.3	66.8	79.1	114.9	252.9	417.1	377.3	1500.4	1519.6	1176.3	647.2
82.5°	41.2	41.6	51.7	81.1	172.1	375.4	356.2	818.1	797.1	329.9	161.7
85°	23.7	23.5	33.0	54.9	110.5	316.8	347.4	352.1	323.0	99.3	58.5
87.5°	8.5	9.1	17.7	30.4	63.3	220.6	294.7	183.1	165.1	44.9	26.4
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°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	803.8	804.5	803.7	798.8	794.7	788.0	784.3	779.0	777.5	776.7	778.7
5°	806.8	807.1	799.9	787.2	772.9	756.0	743.9	729.0	721.9	718.9	720.8
7.5°	809.6	808.5	792.9	768.5	742.1	712.7	686.6	662.7	648.8	643.1	643.6
10°	810.0	805.4	780.3	742.5	701.5	658.5	618.5	581.6	558.3	543.1	547.7
12.5°	806.2	798.5	761.7	708.9	652.1	593.4	539.3	483.9	450.7	435.3	435.8
15°	803.3	789.2	738.9	669.4	593.0	515.2	441.4	376.4	340.9	325.2	317.8
17.5°	800.9	779.3	712.5	624.9	523.2	424.6	335.9	277.9	258.5	253.9	251.9
20°	797.5	768.7	683.0	573.3	443.8	323.2	245.2	216.6	216.7	222.1	222.8
22.5°	792.8	756.7	651.6	515.5	358.5	235.4	192.2	184.0	192.4	202.6	204.4
25°	785.7	742.5	616.6	451.6	273.4	181.0	164.2	163.9	174.1	184.7	186.3
27.5°	775.8	724.0	577.8	382.9	201.5	153.8	147.1	149.7	157.2	165.0	165.6
30°	762.4	702.4	535.0	310.5	157.9	136.9	136.2	138.5	143.1	148.6	149.1
32.5°	747.8	680.4	489.3	240.4	135.2	127.8	128.6	129.7	131.8	134.0	134.5
35°	734.4	658.0	442.5	182.7	124.4	121.9	121.4	121.2	121.4	120.7	120.8
37.5°	725.8	639.4	393.7	145.4	118.3	116.7	115.2	113.4	111.3	110.1	110.4
40°	722.6	625.6	344.3	125.7	113.2	112.1	109.3	105.4	103.0	102.2	102.2
42.5°	731.1	618.5	296.7	115.7	108.9	107.1	102.5	98.0	96.2	96.1	95.9
45°	757.1	621.4	251.3	110.3	105.0	101.5	95.5	91.7	90.5	90.7	90.6
47.5°	803.7	639.7	212.5	106.6	101.2	96.5	89.8	86.7	85.3	85.3	85.4
50°	882.9	682.5	181.6	103.6	97.9	91.9	85.6	81.9	79.9	79.8	79.8
52.5°	998.2	759.2	162.3	101.0	94.2	87.8	81.5	76.8	74.5	74.0	73.7
55°	1142.8	869.0	156.9	99.3	89.4	83.3	76.5	71.8	69.3	68.2	68.0
57.5°	1304.5	1002.7	167.5	97.3	84.4	78.0	71.1	66.6	63.9	62.6	62.5
60°	1468.1	1148.6	210.6	94.4	80.3	72.2	65.5	61.4	58.7	57.2	57.0
62.5°	1632.0	1302.4	298.5	94.1	77.4	66.6	59.8	56.3	53.7	52.2	51.8
65°	1816.8	1470.8	398.4	100.5	76.4	61.5	54.0	51.2	49.0	47.5	47.4
67.5°	2029.1	1660.8	388.9	113.8	79.7	56.9	48.5	46.3	44.8	43.5	43.4
70°	2128.6	1631.1	241.7	123.1	84.3	52.4	43.3	41.7	40.5	39.7	39.3
71°	2086.9	1548.8	202.7	122.0	83.8	50.5	41.2	40.0	38.8	38.1	37.7
72.5°	1973.1	1412.4	169.1	113.5	78.4	46.9	38.6	37.4	36.3	35.4	35.2
75°	1770.6	1261.4	135.4	90.7	62.5	39.7	33.8	32.5	31.7	31.2	30.7
77.5°	1301.6	900.2	104.7	71.7	46.0	32.4	28.9	27.9	27.0	26.3	26.0
80°	498.6	348.7	70.5	53.5	33.7	25.6	23.3	22.8	22.0	21.5	21.5
82.5°	134.3	104.2	37.6	32.4	22.6	18.7	17.8	17.6	16.9	15.9	16.0
85°	54.3	46.0	21.1	17.8	13.8	11.0	12.0	12.1	11.3	10.1	10.2
87.5°	23.9	19.5	11.8	7.9	6.1	4.2	5.5	5.5	5.0	4.1	3.8
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)