

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: P450588

Luminaire Tested: **GALN-SA1B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 3107 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

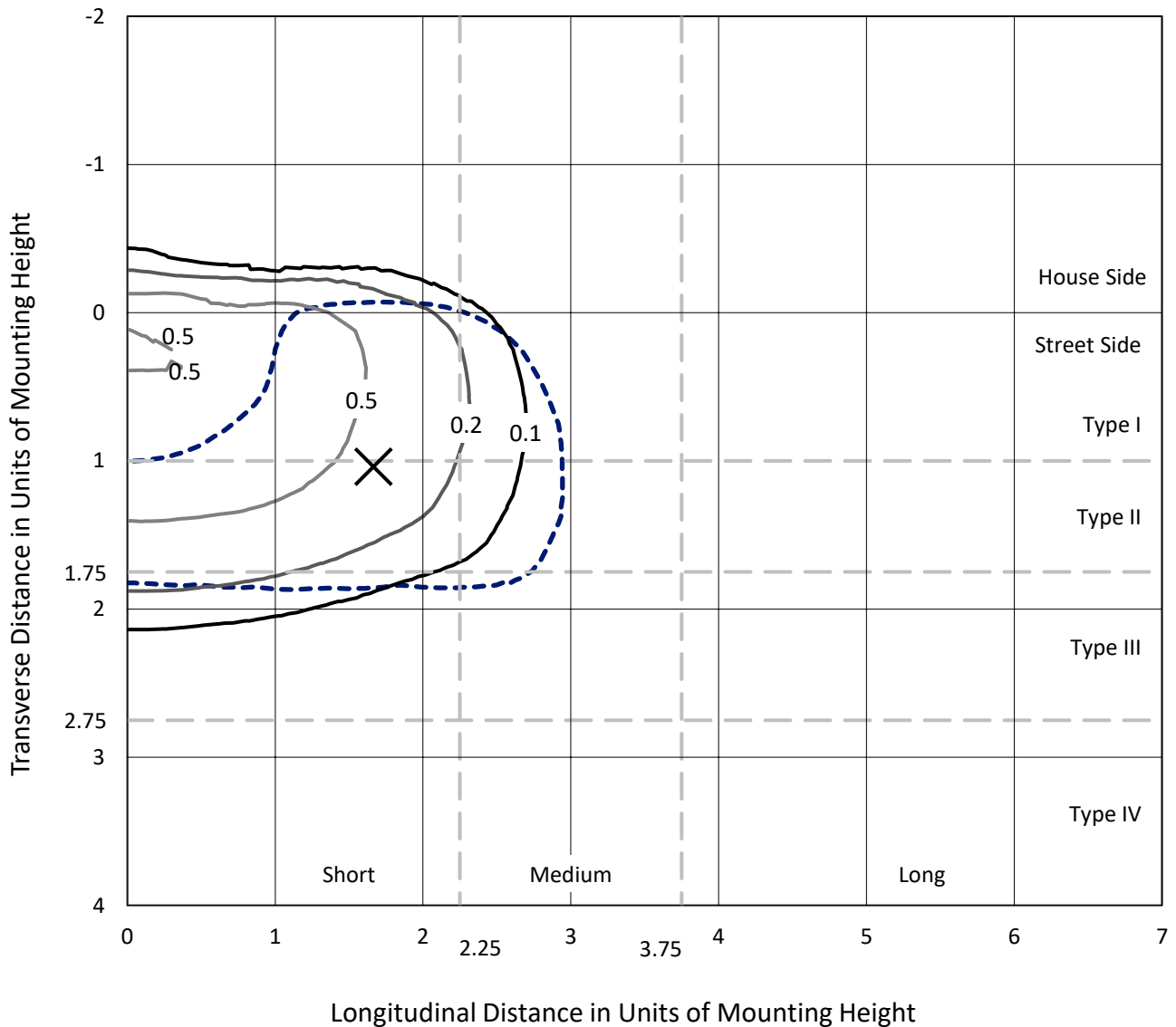
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

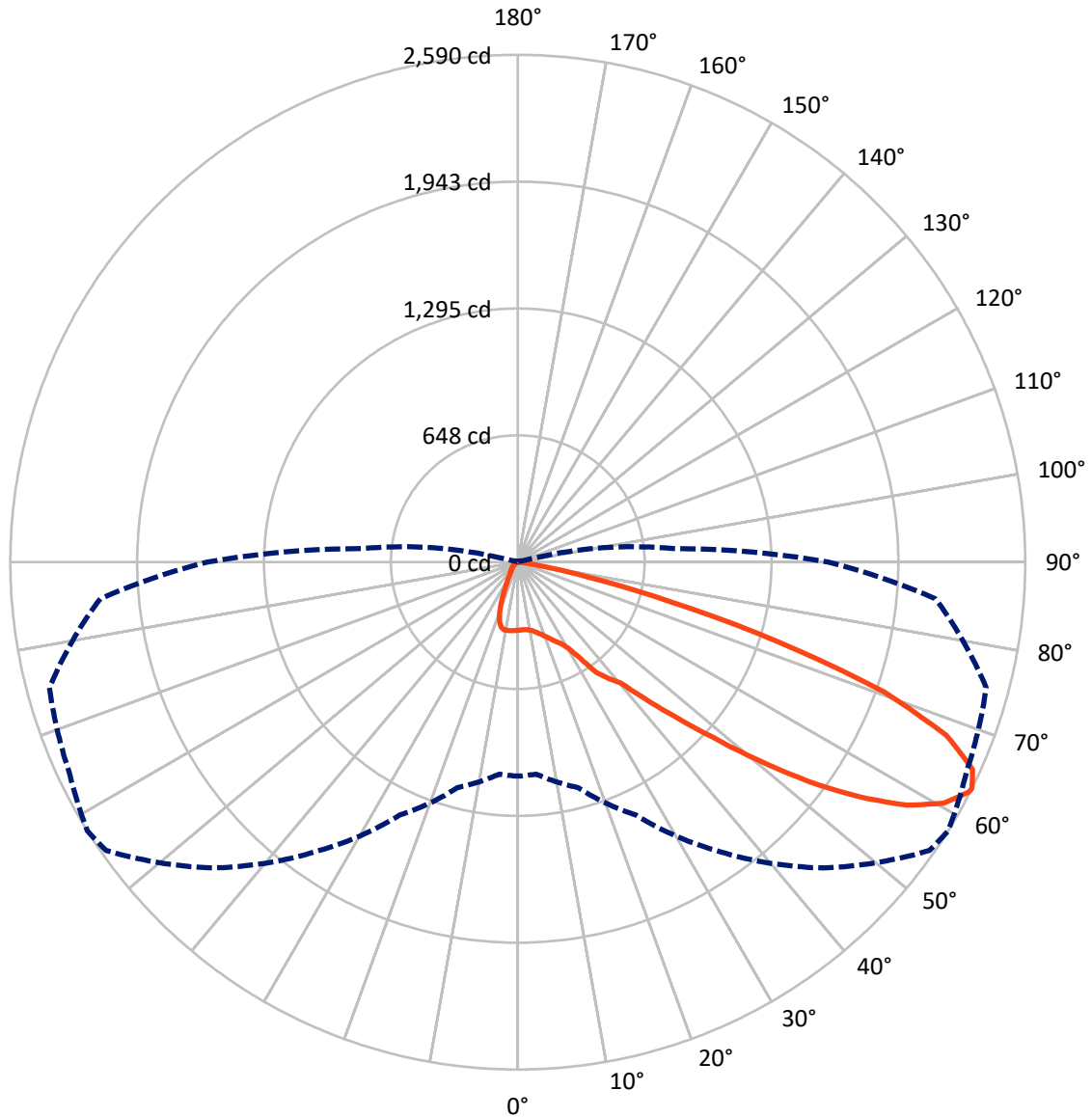
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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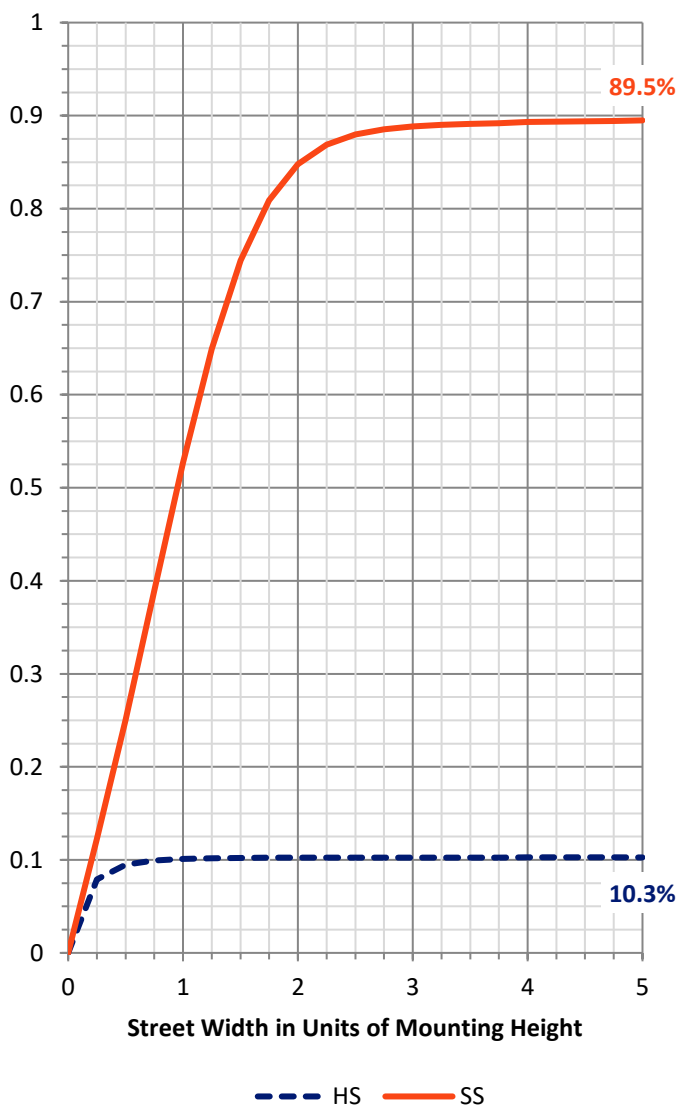
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.7	0.0	321.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2785.3	0.0	2785.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	3107.0	0.0	3107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	1.0
10°-20°	88.7	2.9
20°-30°	153.9	5.0
30°-40°	282.9	9.1
40°-50°	532.5	17.1
50°-60°	910.7	29.3
60°-70°	872.0	28.1
70°-80°	222.4	7.2
80°-90°	11.4	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°	3107.0	100.0
0°-180°	3107.0	100.0

Coefficient of Utilization



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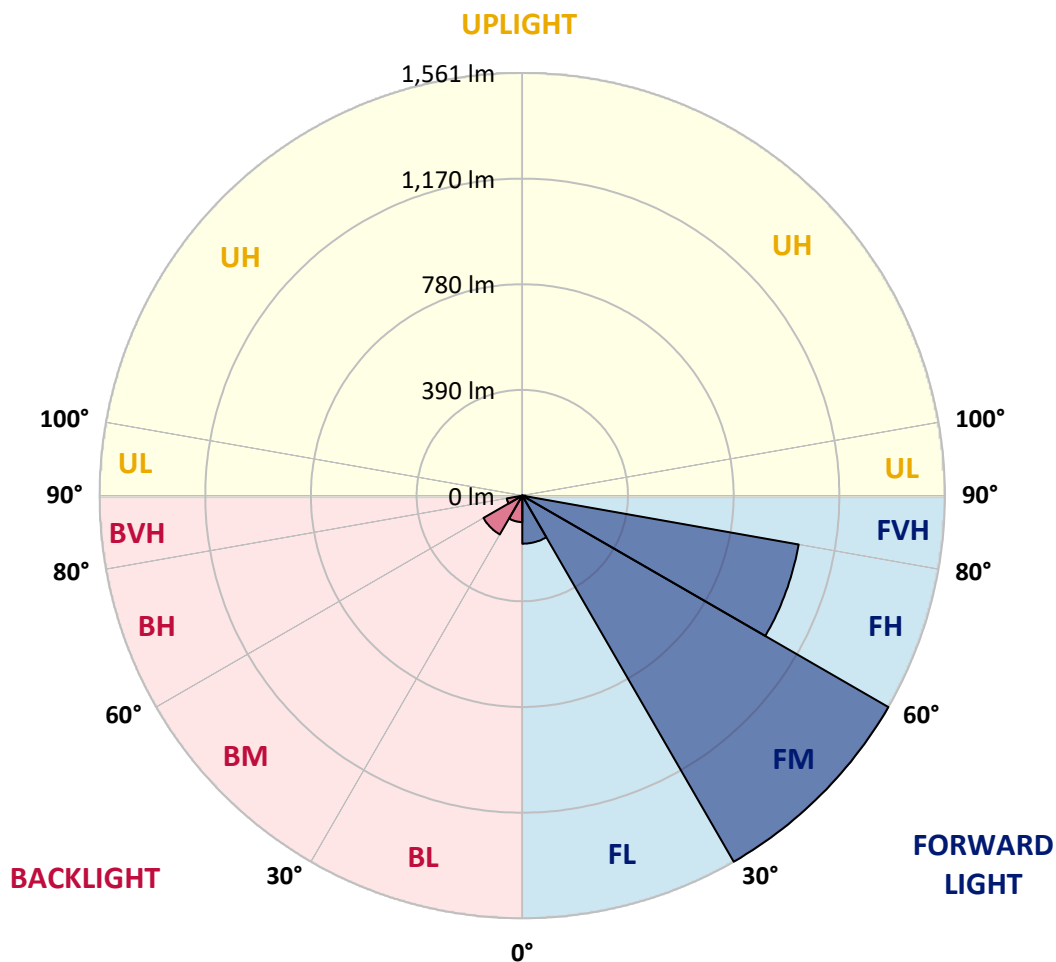
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.6	5.7			
FM (30°-60°)	1560.6	50.2			
FH (60°-80°)	1036.2	33.3			G1/1800
FVH (80°-90°)	10.9	0.4			G1/100
BL (0°-30°)	97.6	3.1	B0/110		
BM (30°-60°)	165.5	5.3	B0/220		
BH (60°-80°)	58.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8
2.5°	339.2	340.4	341.5	342.0	343.6	345.3	346.4	346.2	348.1	349.0	349.0
5°	325.6	325.6	328.7	331.5	336.1	340.8	345.3	346.2	349.7	353.0	354.2
7.5°	314.2	314.9	317.2	322.3	328.7	336.8	345.7	347.8	353.9	361.2	364.2
10°	308.8	309.2	312.3	317.7	325.6	336.8	349.2	353.2	362.6	374.0	378.3
12.5°	307.6	308.3	311.3	317.4	326.6	340.1	357.0	361.2	374.7	389.5	395.8
15°	309.7	310.2	313.2	319.8	329.8	346.0	367.3	373.1	389.2	406.3	414.5
17.5°	317.2	316.7	318.8	324.2	335.4	353.2	379.7	386.7	405.6	429.0	434.4
20°	349.0	346.0	344.1	339.4	343.9	363.5	394.6	404.9	428.3	452.2	455.9
22.5°	417.5	410.8	397.4	379.2	365.2	377.5	412.6	424.6	454.7	478.1	478.1
25°	504.8	496.1	482.8	443.0	408.7	400.7	433.0	448.0	483.5	507.1	499.4
27.5°	614.0	607.3	581.3	535.0	482.3	441.2	456.6	470.4	509.0	537.6	521.4
30°	702.9	699.7	678.4	637.0	579.0	518.8	500.6	509.7	542.9	575.9	559.3
32.5°	778.0	778.0	756.3	717.7	663.4	610.1	575.2	581.8	613.6	651.7	620.8
35°	860.6	857.8	840.2	803.5	742.7	695.7	681.4	690.3	719.1	747.4	671.4
37.5°	947.4	946.4	928.2	892.6	843.1	783.9	750.4	752.8	767.5	784.8	730.5
40°	1041.7	1043.1	1019.2	997.2	950.4	889.8	825.7	811.0	824.8	873.7	839.8
42.5°	1153.0	1149.7	1139.4	1109.5	1071.8	1035.6	958.6	953.2	965.4	1017.8	981.1
45°	1282.4	1287.0	1269.3	1252.6	1227.4	1197.2	1132.9	1123.5	1136.9	1218.3	1166.1
47.5°	1411.9	1407.5	1419.0	1415.9	1429.5	1407.0	1350.2	1331.0	1363.1	1440.3	1363.5
50°	1510.7	1515.6	1539.4	1574.3	1632.5	1645.2	1590.7	1584.1	1598.4	1648.0	1540.1
52.5°	1574.8	1591.1	1628.6	1718.2	1823.2	1904.8	1863.4	1859.9	1854.1	1867.4	1709.0
55°	1616.6	1633.2	1682.1	1814.1	1994.9	2127.5	2129.6	2114.6	2076.0	2066.5	1866.9
57.5°	1590.9	1594.2	1663.9	1840.3	2090.1	2286.3	2355.1	2340.1	2268.8	2232.5	2006.3
60°	1430.0	1436.7	1533.8	1741.1	2048.7	2338.3	2504.6	2497.8	2419.7	2378.7	2114.9
62.5°	1144.8	1164.5	1264.3	1495.5	1856.2	2250.8	2565.2	2584.4	2523.5	2467.2	2149.0
63°	1092.4	1086.1	1191.6	1423.9	1805.2	2207.5	2566.1	2590.4	2528.2	2475.6	2139.7
65°	808.7	827.6	896.2	1122.8	1502.2	2006.1	2508.3	2551.4	2510.9	2438.4	2036.0
67.5°	454.0	453.1	528.9	734.7	1051.5	1573.6	2268.1	2359.1	2350.7	2188.1	1687.7
70°	222.2	225.7	256.8	380.8	609.8	1085.6	1884.7	1982.9	1986.0	1718.6	1167.0
72.5°	100.6	102.2	124.4	185.5	313.5	578.0	1298.7	1392.5	1375.2	1095.2	644.5
75°	53.1	56.6	68.5	93.3	151.1	238.4	706.4	797.2	760.9	500.4	237.2
77.5°	39.3	40.5	46.6	59.4	80.9	92.9	304.8	362.6	339.7	181.1	78.6
80°	28.8	29.7	34.6	42.1	51.0	47.3	114.9	131.7	118.1	61.5	24.1
82.5°	17.5	17.8	25.3	31.3	32.0	26.4	37.9	40.7	42.6	34.6	13.1
85°	6.3	8.0	17.1	22.7	18.9	13.3	15.9	17.5	19.2	22.0	7.7
87.5°	0.7	0.9	8.2	11.0	5.4	4.9	5.8	6.5	7.0	8.2	3.7
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°	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8
2.5°	349.9	350.9	350.2	349.0	348.8	348.1	346.7	346.7	346.7	347.1	346.7
5°	355.1	355.8	354.2	351.8	349.2	346.0	342.5	340.4	340.1	339.7	338.5
7.5°	364.9	365.9	362.1	356.5	349.5	341.5	334.0	327.0	323.7	321.2	321.2
10°	379.2	380.1	372.6	362.6	348.5	332.4	314.6	298.5	285.9	280.0	278.6
12.5°	396.3	396.7	384.3	366.8	343.6	312.5	274.6	239.3	214.7	203.5	202.3
15°	415.0	411.7	395.3	368.4	329.6	271.6	206.1	162.8	137.3	129.8	132.6
17.5°	433.9	427.8	403.7	365.9	298.0	206.1	138.5	111.1	103.2	101.1	101.1
20°	451.7	443.3	409.8	354.6	243.3	142.0	102.7	96.1	94.7	93.3	93.6
22.5°	469.5	456.6	415.2	329.6	181.3	101.5	91.9	89.8	88.0	86.1	85.8
25°	486.8	469.0	417.3	283.3	123.5	87.3	84.0	81.2	77.4	75.3	74.9
27.5°	504.8	484.0	415.9	224.8	90.1	78.1	74.9	70.9	66.4	62.7	62.7
30°	539.4	512.5	411.0	161.6	75.8	68.8	64.6	58.2	53.3	49.6	49.4
32.5°	586.7	549.7	394.2	113.7	67.4	60.6	54.3	47.3	42.1	39.3	39.3
35°	628.8	587.1	362.6	83.7	60.6	52.6	44.9	38.1	34.2	32.3	31.6
37.5°	692.9	641.9	319.1	68.1	54.0	45.6	37.7	31.3	28.1	26.7	26.7
40°	789.0	708.8	265.7	59.6	47.7	38.8	31.3	26.4	23.9	22.2	22.2
42.5°	908.3	790.7	211.7	53.6	41.9	33.5	26.2	22.5	20.1	18.9	18.7
45°	1058.5	877.0	163.0	48.0	37.2	28.5	22.2	18.9	16.6	15.9	16.1
47.5°	1215.2	953.0	126.3	43.0	32.3	24.1	18.9	16.4	14.7	13.8	13.8
50°	1349.0	1005.4	95.9	37.4	28.5	20.4	16.6	14.7	13.3	12.9	12.6
52.5°	1460.8	1020.6	73.5	32.5	25.0	17.5	14.7	13.3	12.2	11.5	11.5
55°	1556.0	1007.3	57.5	27.4	21.1	15.2	13.1	11.9	10.5	9.8	9.6
57.5°	1611.7	964.5	44.0	22.7	17.1	12.6	11.5	10.1	8.4	7.3	7.3
60°	1639.8	902.2	33.7	18.7	13.1	10.1	9.4	7.5	5.8	4.9	4.7
62.5°	1606.1	819.7	25.5	14.7	9.8	7.5	6.3	5.4	3.7	2.8	2.8
63°	1585.3	795.8	24.6	14.0	9.1	7.0	5.8	4.9	3.3	2.6	2.3
65°	1445.2	691.7	20.1	11.2	7.3	4.9	4.0	3.5	2.3	1.2	0.9
67.5°	1147.6	529.1	15.9	8.4	5.1	3.5	2.3	2.1	0.7	0.0	0.0
70°	775.9	341.8	12.4	6.1	3.5	2.1	1.2	0.9	0.2	0.0	0.0
72.5°	404.7	175.2	9.6	4.4	2.1	1.4	0.7	0.2	0.0	0.0	0.0
75°	143.2	59.6	7.0	2.8	1.4	0.7	0.2	0.0	0.0	0.0	0.0
77.5°	43.3	22.2	4.4	2.1	0.9	0.5	0.0	0.0	0.0	0.0	0.0
80°	15.2	8.2	2.6	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	4.0	1.6	1.2	0.7	0.2	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.6	1.4	1.2	0.7	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.9	1.4	1.2	0.9	0.5	0.2	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)