

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: P324915

Luminaire Tested: **GLEON-SA1B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3601 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

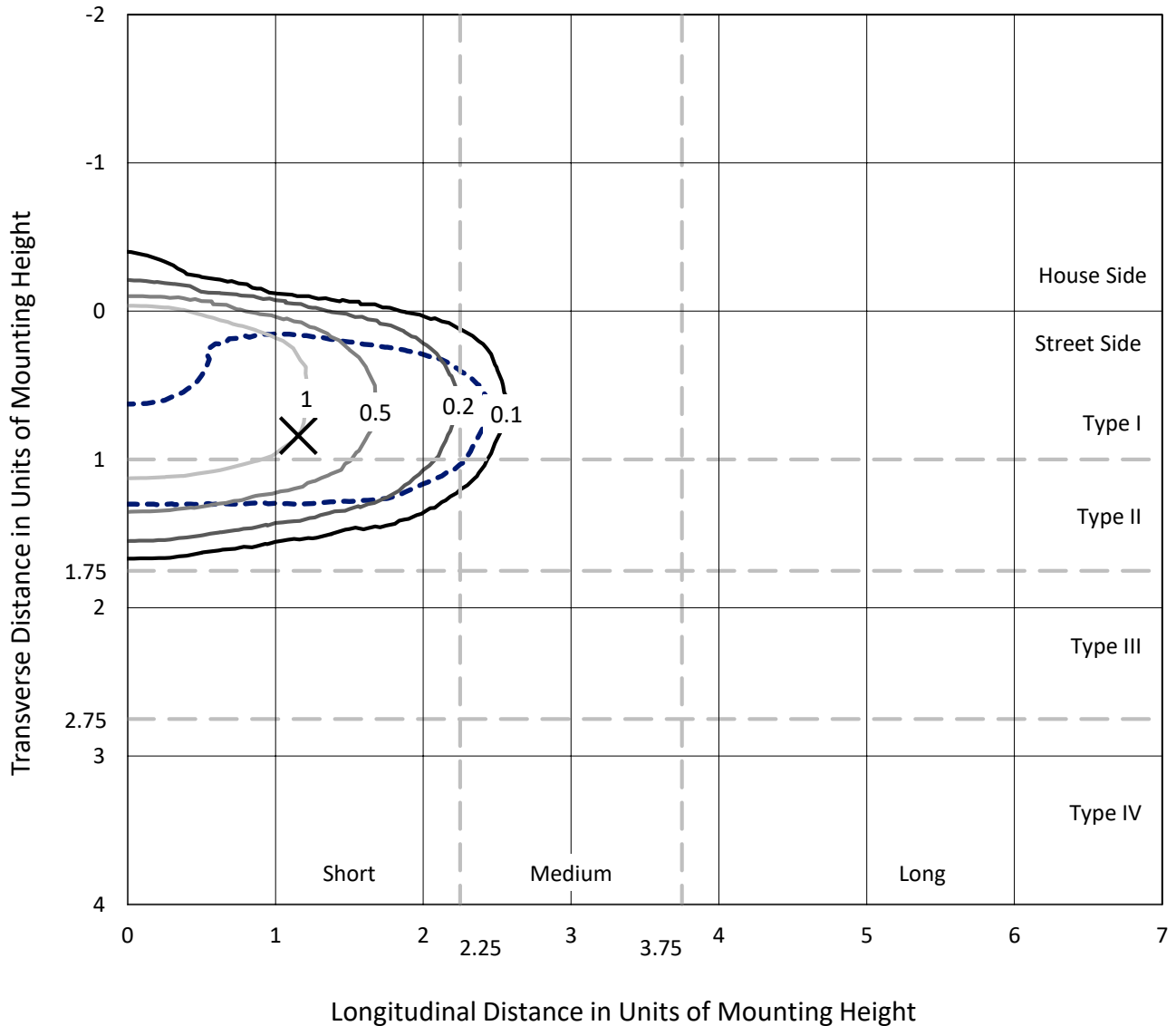
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

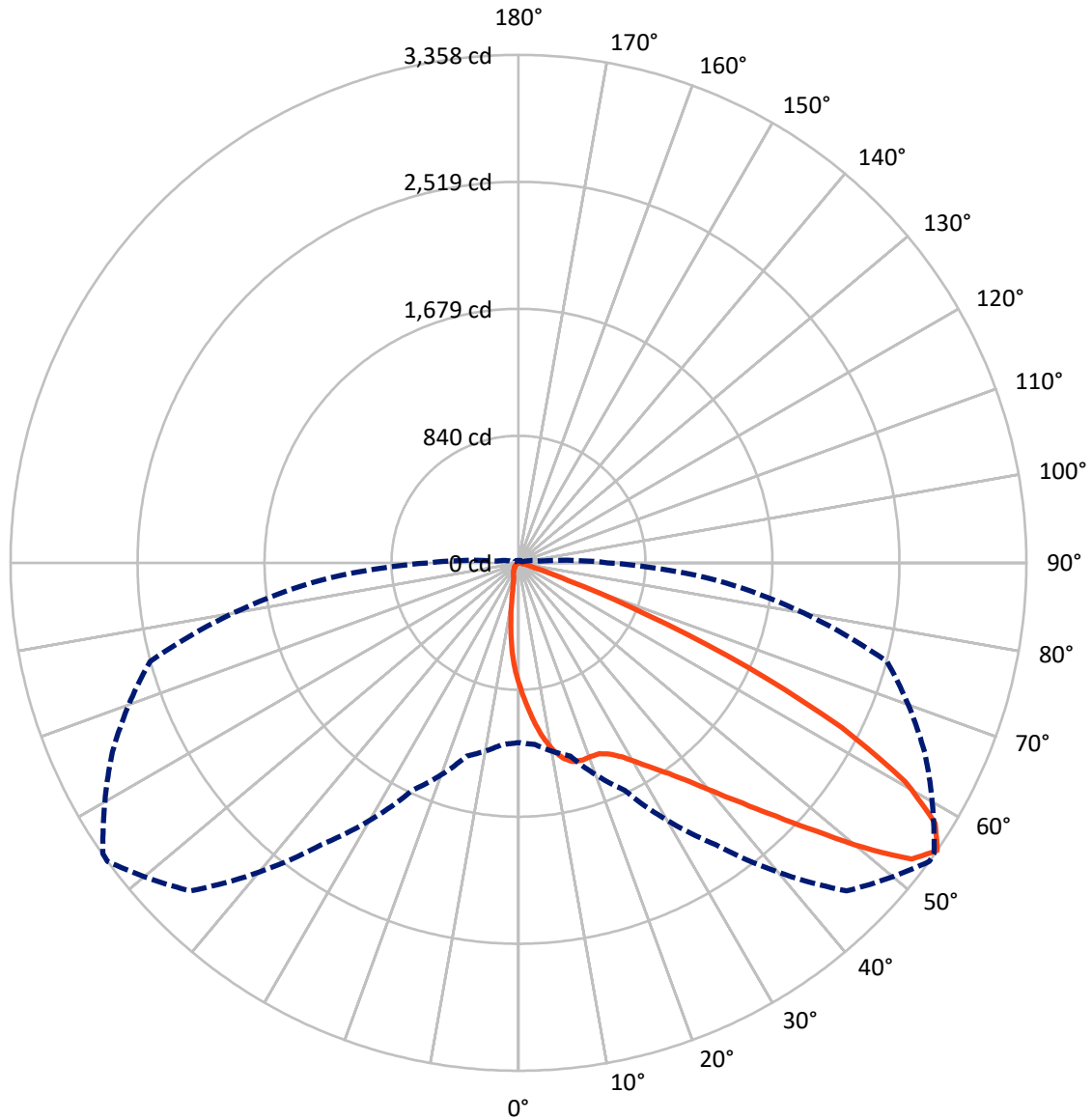
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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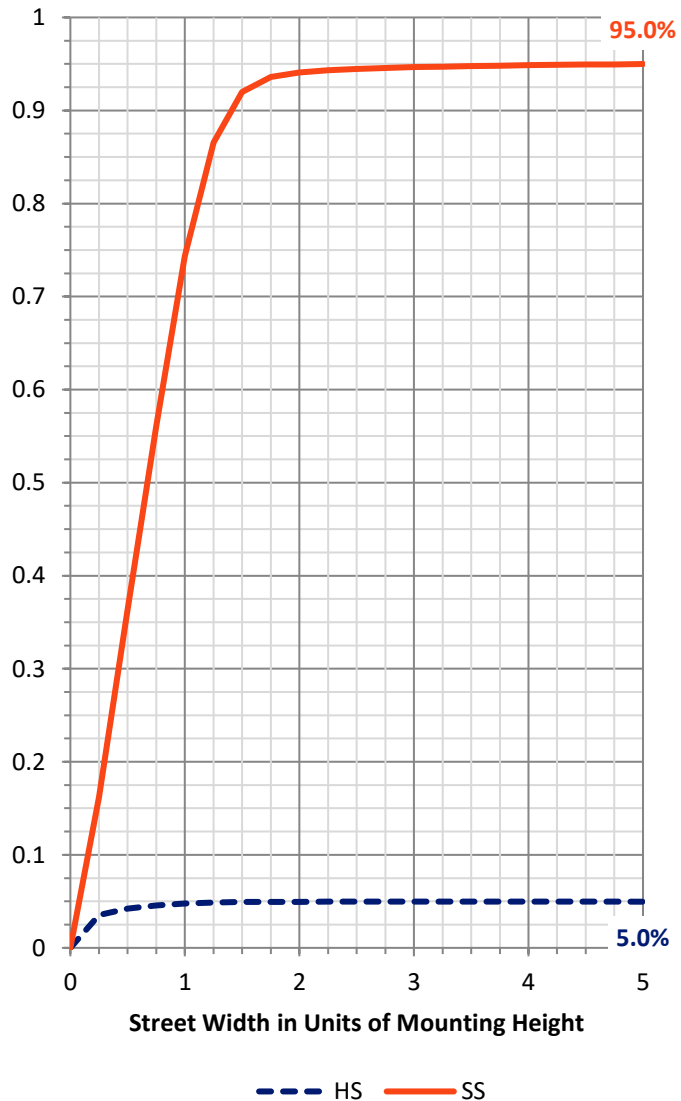
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	179.7	0.0	179.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3421.3	0.0	3421.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	3601.0	0.0	3601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	2.1
10°-20°	203.7	5.7
20°-30°	347.8	9.7
30°-40°	558.1	15.5
40°-50°	891.8	24.8
50°-60°	955.6	26.5
60°-70°	490.6	13.6
70°-80°	74.3	2.1
80°-90°	4.8	0.1
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°	3601.0	100.0
0°-180°	3601.0	100.0

Coefficient of Utilization

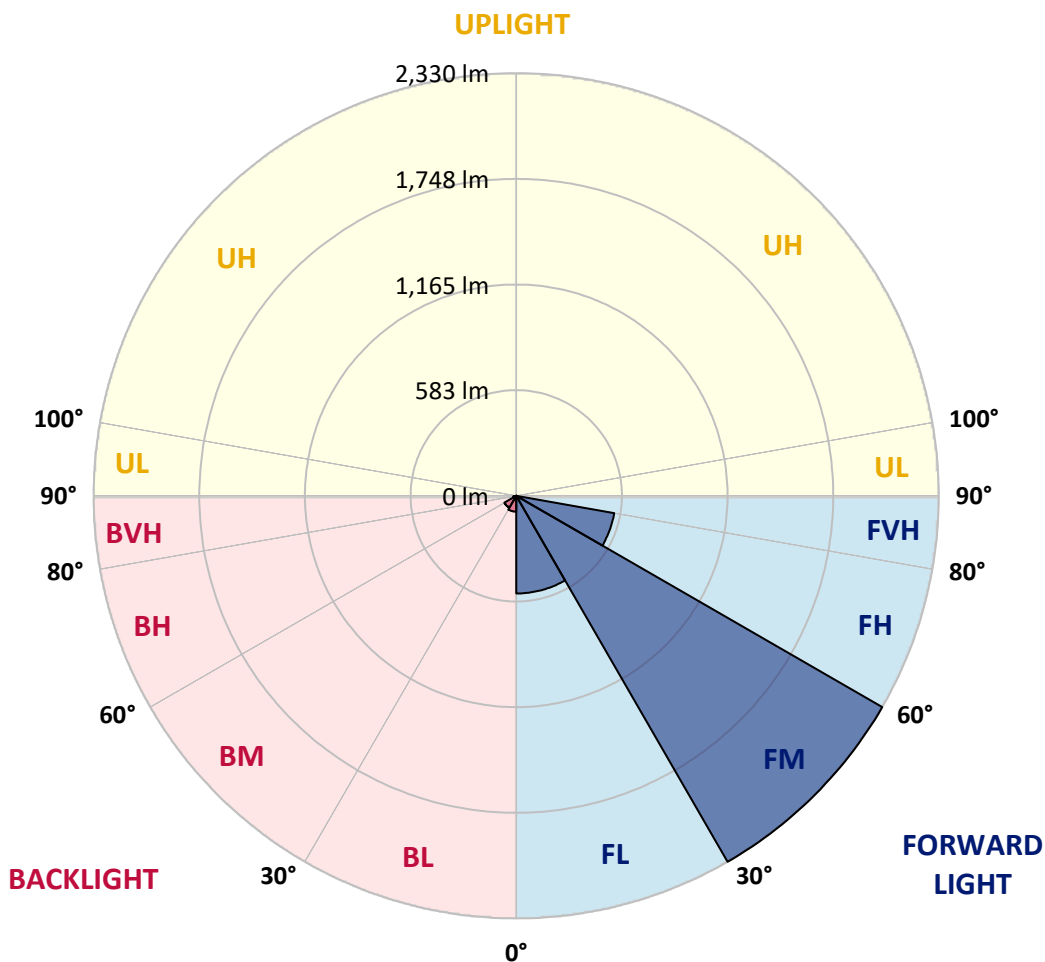


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.3	14.9			
FM (30°-60°)	2330.0	64.7			
FH (60°-80°)	548.4	15.2			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	87.4	2.4	B0/110		
BM (30°-60°)	75.5	2.1	B0/220		
BH (60°-80°)	16.6	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5
2.5°	1012.1	997.0	997.4	990.6	965.6	946.0	925.6	920.8	889.1	855.8	823.7
5°	1187.0	1176.0	1173.3	1160.1	1125.3	1088.4	1048.9	1039.7	977.7	909.6	842.6
7.5°	1276.9	1277.1	1274.9	1270.1	1248.3	1212.5	1164.3	1154.7	1070.2	968.1	862.2
10°	1250.8	1256.7	1268.8	1284.8	1301.5	1297.0	1260.7	1252.0	1160.3	1029.9	883.9
12.5°	1189.8	1190.6	1204.1	1230.4	1278.3	1327.4	1328.1	1325.1	1246.3	1094.6	907.9
15°	1159.5	1162.4	1167.4	1184.4	1229.8	1308.5	1364.8	1369.0	1325.1	1163.4	933.4
17.5°	1179.4	1183.6	1179.4	1181.4	1207.7	1278.5	1371.1	1381.9	1394.0	1231.3	957.5
20°	1233.4	1237.2	1229.8	1221.5	1226.7	1269.7	1366.6	1381.1	1448.0	1291.7	977.7
22.5°	1306.1	1307.7	1296.3	1282.8	1279.1	1299.3	1370.4	1385.3	1491.2	1346.3	990.4
25°	1386.2	1387.6	1373.5	1357.9	1349.1	1357.3	1401.0	1412.2	1529.3	1398.4	997.8
27.5°	1473.5	1474.7	1457.0	1437.9	1427.6	1427.9	1451.5	1463.5	1569.9	1457.8	1003.7
30°	1565.7	1565.1	1548.7	1522.1	1509.1	1508.8	1524.3	1536.4	1628.7	1534.0	1011.8
32.5°	1669.3	1668.0	1644.8	1611.9	1597.1	1599.3	1613.1	1620.1	1701.6	1615.1	1026.2
35°	1805.6	1802.1	1767.1	1726.2	1699.0	1698.2	1709.8	1715.4	1794.6	1713.4	1050.3
37.5°	1982.6	1979.3	1931.9	1872.5	1834.3	1819.9	1833.8	1840.9	1927.2	1839.5	1089.0
40°	2157.1	2153.8	2125.7	2071.2	2012.3	1977.9	1988.8	1996.4	2092.9	1992.6	1137.9
42.5°	2277.5	2280.3	2290.1	2294.6	2239.4	2167.2	2172.2	2180.1	2266.9	2156.2	1193.7
45°	2309.2	2315.2	2370.6	2479.3	2500.0	2443.7	2391.6	2396.0	2443.7	2319.8	1249.5
47.5°	2213.9	2225.0	2331.9	2534.0	2709.2	2749.0	2650.4	2644.6	2613.4	2452.1	1289.2
50°	1997.2	2007.5	2145.9	2444.9	2772.6	3040.4	2960.5	2943.5	2762.2	2531.3	1303.2
52.5°	1683.7	1696.2	1808.6	2164.4	2653.0	3170.4	3254.1	3239.9	2871.4	2537.5	1305.5
55°	1189.0	1204.1	1323.1	1658.8	2274.0	3067.0	3358.1	3353.9	2962.0	2521.0	1310.5
57.5°	668.2	679.1	807.4	1063.4	1665.5	2671.4	3249.4	3277.2	3016.8	2492.4	1318.0
60°	296.7	299.7	366.1	529.4	975.1	2041.5	2938.2	2985.2	2969.8	2454.1	1330.6
62.5°	164.5	162.0	162.0	220.0	423.8	1263.8	2396.0	2473.6	2769.3	2408.9	1331.2
65°	128.9	126.6	119.9	120.8	161.4	560.9	1659.1	1797.1	2388.6	2276.2	1286.4
67.5°	109.3	107.3	100.6	98.0	100.3	185.1	911.6	1054.8	1812.5	1931.4	1114.2
70°	92.4	91.0	87.6	84.3	78.4	91.4	348.8	446.2	1116.9	1284.8	760.6
72.5°	74.3	73.7	75.0	72.2	65.0	61.0	119.3	144.5	501.7	573.4	313.4
75°	64.1	63.8	64.4	61.6	53.5	42.5	60.6	66.2	141.5	140.3	63.4
77.5°	41.7	42.1	53.3	52.1	46.0	28.3	31.4	33.9	42.9	32.2	19.3
80°	26.6	26.3	27.1	43.2	41.4	21.6	15.7	16.5	20.7	15.9	9.3
82.5°	16.2	15.9	17.7	20.2	20.8	15.1	9.6	9.8	12.9	10.3	5.0
85°	1.4	1.9	10.7	10.0	7.2	4.7	4.7	5.0	6.8	6.1	2.8
87.5°	0.0	0.0	1.9	2.8	1.6	1.7	1.7	1.9	2.6	2.6	1.4
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°	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5	806.5
2.5°	807.1	790.9	758.3	726.9	700.3	674.6	645.4	616.4	602.9	597.5	591.9
5°	808.5	775.2	707.9	640.1	569.8	506.5	452.5	397.2	369.5	357.4	351.8
7.5°	810.4	759.7	650.8	537.0	423.8	337.9	263.0	214.8	193.9	190.7	182.6
10°	810.7	740.9	584.6	423.1	284.1	203.7	156.8	131.9	122.7	121.1	118.5
12.5°	811.3	718.6	511.0	313.4	189.4	136.2	113.4	105.1	102.6	102.5	102.5
15°	813.2	695.3	434.7	225.8	136.1	107.9	99.5	96.3	95.3	95.8	95.6
17.5°	813.2	667.8	359.7	168.3	109.9	97.0	92.4	90.2	89.9	90.4	90.5
20°	807.3	634.3	291.0	130.9	97.5	90.0	85.8	83.8	83.0	83.4	83.5
22.5°	793.1	593.3	235.0	108.4	89.3	83.7	79.2	76.0	74.8	75.0	75.0
25°	771.0	544.6	183.8	93.8	82.6	76.8	71.5	68.0	67.2	67.0	67.3
27.5°	742.7	490.8	146.3	82.6	74.6	69.2	63.9	61.0	60.3	60.5	60.6
30°	714.9	435.0	115.4	73.1	65.8	60.6	56.6	55.2	55.2	55.7	55.8
32.5°	689.4	381.3	91.3	64.8	57.9	53.2	50.9	50.7	51.5	51.8	51.9
35°	667.5	331.7	75.6	58.5	51.6	47.6	46.8	47.4	48.4	49.0	49.1
37.5°	651.9	287.4	66.1	53.2	46.8	43.5	43.4	44.6	45.9	47.3	47.6
40°	645.4	249.9	59.6	48.5	42.9	40.4	40.0	41.7	44.0	46.0	46.3
42.5°	639.9	219.3	54.0	44.0	39.8	36.2	36.1	38.3	41.1	43.1	43.5
45°	635.3	194.7	48.8	39.2	35.8	31.1	31.6	34.4	36.5	38.7	39.2
47.5°	625.6	174.5	43.2	34.1	29.5	26.6	27.5	30.0	31.7	35.0	35.5
50°	608.4	158.0	37.5	27.8	24.1	23.0	24.4	26.1	28.3	31.1	31.4
52.5°	596.7	145.6	32.5	23.3	19.9	20.2	21.6	22.2	23.5	24.6	24.3
55°	590.0	138.7	28.5	20.2	17.0	17.9	18.2	17.4	16.8	15.7	15.2
57.5°	589.2	132.5	25.3	17.6	14.9	15.4	14.3	11.7	9.5	8.2	7.9
60°	588.0	124.9	22.9	14.8	13.2	12.6	10.3	6.4	4.5	4.2	4.2
62.5°	574.5	113.1	21.0	12.4	11.2	9.5	5.9	3.0	2.5	2.6	2.6
65°	531.4	96.6	19.1	10.1	8.9	6.8	3.0	1.7	0.9	1.1	1.1
67.5°	451.8	77.0	17.1	7.8	6.7	4.4	1.7	0.8	0.0	0.0	0.0
70°	302.5	47.7	14.5	5.4	4.4	2.6	1.2	0.2	0.0	0.0	0.0
72.5°	116.0	25.8	11.7	3.3	2.8	1.9	0.8	0.0	0.0	0.0	0.0
75°	26.1	17.0	8.1	2.3	2.0	1.2	0.3	0.0	0.0	0.0	0.0
77.5°	10.0	12.3	4.7	1.6	1.4	0.8	0.0	0.0	0.0	0.0	0.0
80°	4.8	7.3	2.2	0.9	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	2.8	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.5	0.2	0.2	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)