

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: P526434

Luminaire Tested: **GALN-SA1B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3819 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

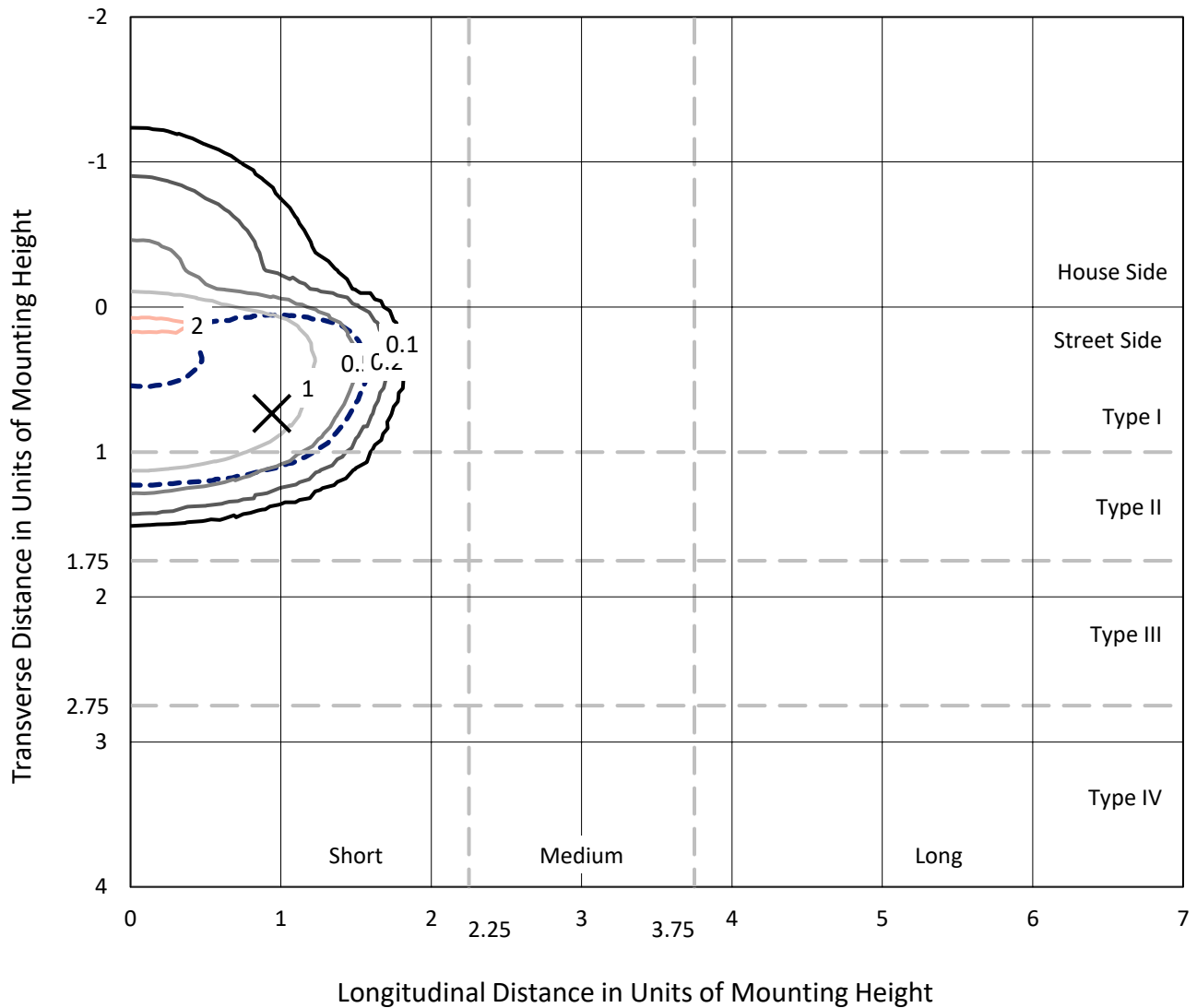
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

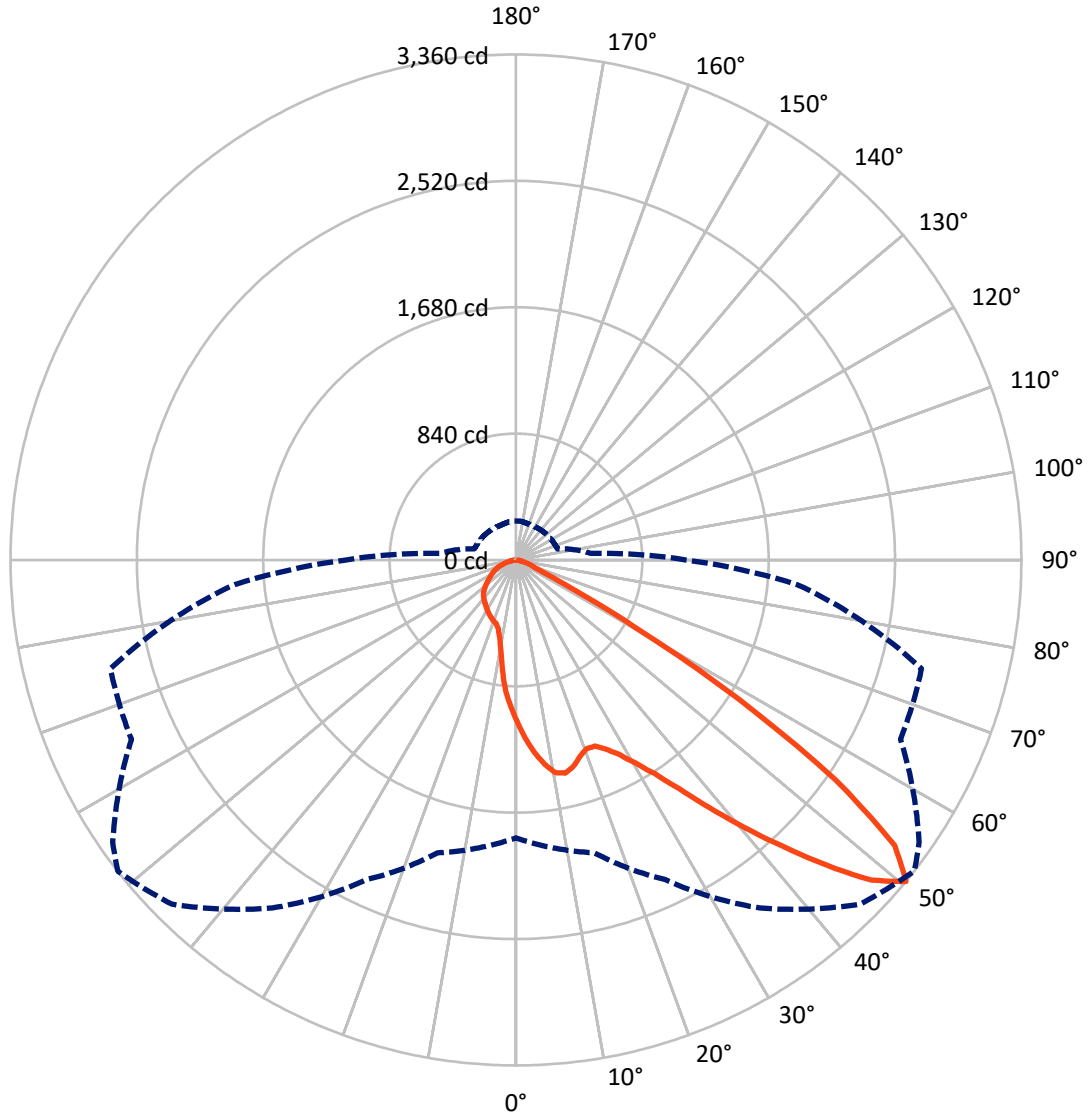
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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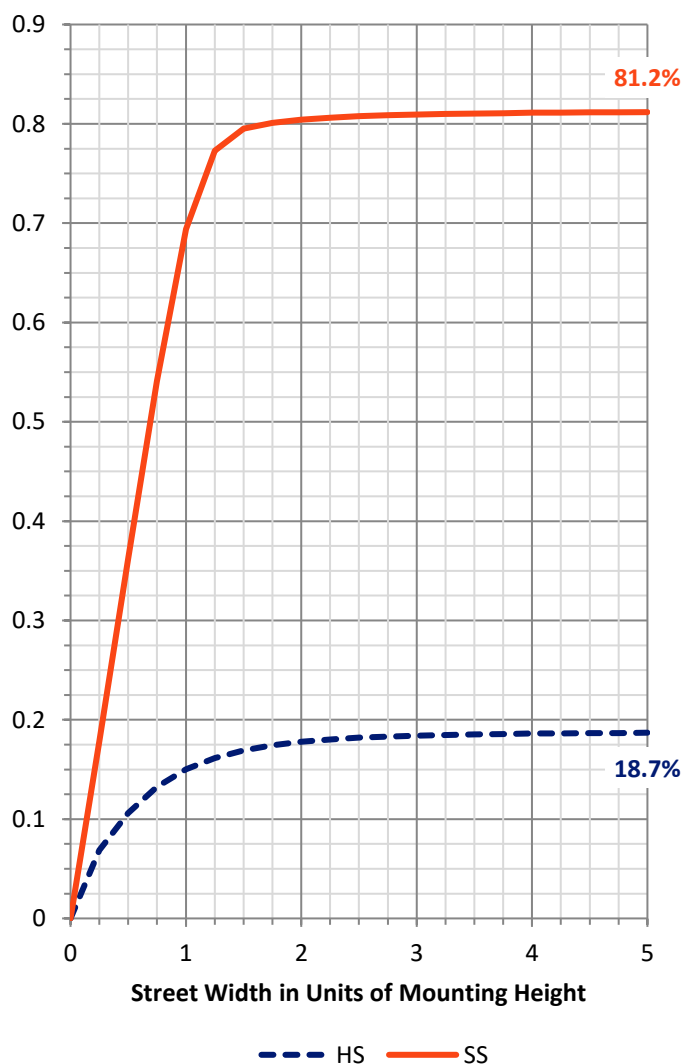
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.9	0.0	717.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3101.1	0.0	3101.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	3819.0	0.0	3819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	2.6
10°-20°	265.9	7.0
20°-30°	448.0	11.7
30°-40°	751.7	19.7
40°-50°	1149.9	30.1
50°-60°	838.4	22.0
60°-70°	186.6	4.9
70°-80°	67.3	1.8
80°-90°	11.9	0.3
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°	3819.0	100.0
0°-180°	3819.0	100.0

Coefficient of Utilization



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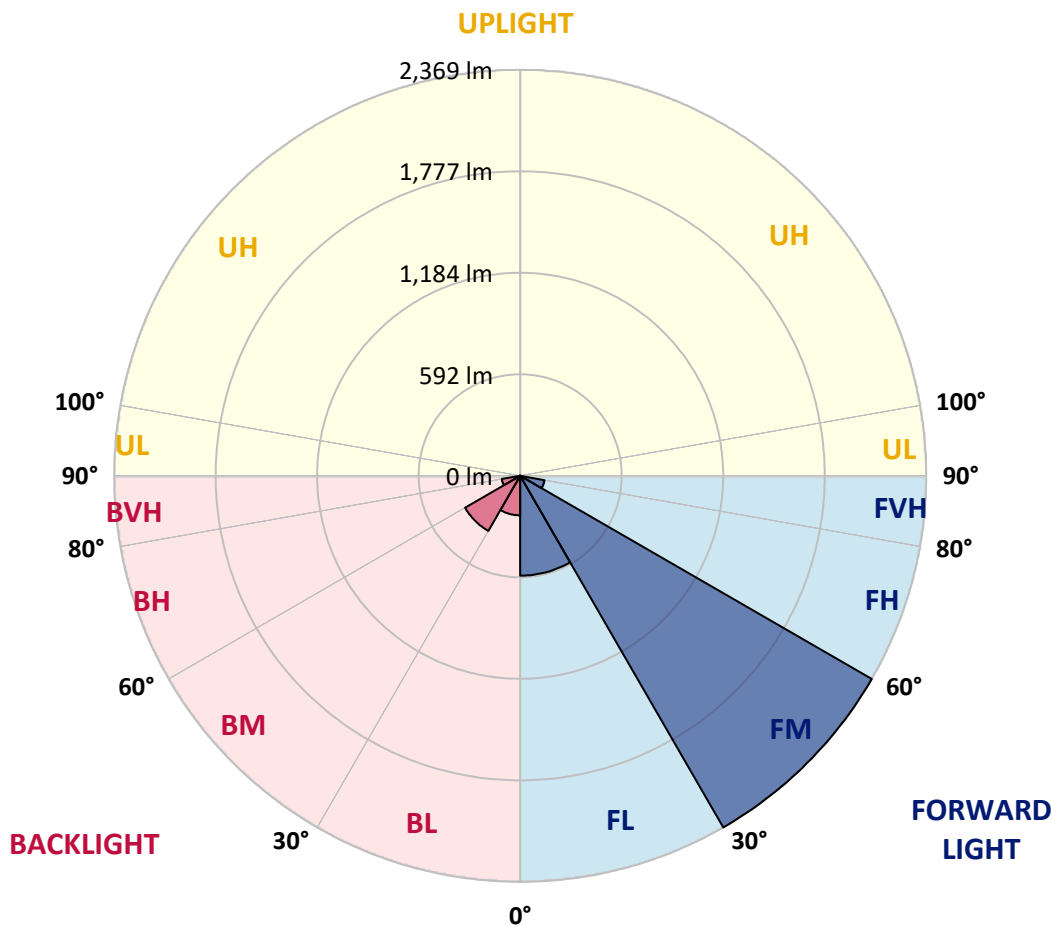
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.5	15.3			
FM (30°-60°)	2368.7	62.0			
FH (60°-80°)	144.5	3.8			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	230.6	6.0	B1/500		
BM (30°-60°)	371.3	9.7	B1/1000		
BH (60°-80°)	109.4	2.9	B0/110		G0/110
BVH (80°-90°)	6.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1267.5	1243.1	1245.9	1228.4	1209.5	1204.0	1184.7	1166.3	1152.5	1123.0	1095.8
5°	1385.3	1378.0	1366.9	1353.1	1338.9	1303.9	1284.1	1261.1	1210.4	1164.9	1119.8
7.5°	1402.4	1401.0	1407.0	1407.0	1412.0	1398.7	1370.6	1354.5	1300.7	1226.6	1142.8
10°	1282.7	1286.8	1315.8	1353.6	1406.0	1442.4	1437.8	1433.7	1374.8	1273.5	1169.9
12.5°	1187.4	1178.2	1195.3	1227.5	1306.2	1394.1	1453.5	1453.9	1438.7	1348.5	1189.7
15°	1133.6	1140.0	1144.6	1159.8	1219.2	1320.9	1425.4	1456.2	1523.0	1401.4	1221.0
17.5°	1168.1	1146.5	1145.5	1149.2	1179.6	1256.0	1373.4	1426.3	1569.0	1469.6	1259.7
20°	1213.2	1212.7	1199.9	1195.3	1194.8	1262.9	1339.3	1411.1	1593.4	1557.9	1298.8
22.5°	1292.4	1292.4	1271.2	1261.1	1239.4	1295.1	1343.9	1392.7	1633.9	1618.7	1317.7
25°	1424.9	1403.3	1366.9	1342.1	1329.6	1349.4	1392.7	1436.4	1669.3	1683.1	1356.8
27.5°	1547.3	1513.3	1495.3	1452.5	1436.0	1424.5	1464.0	1508.2	1710.7	1783.4	1378.0
30°	1686.3	1680.4	1648.1	1592.9	1551.9	1530.8	1567.1	1610.9	1786.7	1886.1	1426.8
32.5°	1934.9	1880.6	1836.8	1769.2	1702.4	1657.3	1693.2	1722.2	1912.8	1993.3	1480.1
35°	2203.2	2185.7	2110.2	1988.3	1886.1	1845.6	1866.8	1888.4	2059.6	2157.2	1569.9
37.5°	2466.9	2443.0	2380.8	2278.2	2153.9	2071.6	2086.8	2112.1	2224.4	2378.1	1679.4
40°	2656.5	2627.1	2595.8	2580.6	2457.2	2344.5	2335.7	2342.2	2447.1	2585.2	1800.9
42.5°	2670.3	2706.7	2716.4	2777.6	2748.6	2656.1	2602.2	2603.6	2659.8	2790.0	1923.8
45°	2641.3	2607.7	2679.1	2846.2	2941.9	2985.1	2894.5	2883.0	2791.4	2908.7	1985.0
47.5°	2337.1	2346.3	2466.9	2731.1	3007.7	3201.0	3179.8	3141.6	2861.8	2904.6	1975.4
50°	1847.4	1903.1	2015.0	2344.0	2823.6	3235.1	3359.8	3271.4	2819.9	2790.5	1876.9
52.5°	1230.2	1253.2	1326.9	1751.7	2270.4	2891.7	3152.7	3172.9	2781.3	2640.9	1752.2
55°	547.7	545.9	649.4	915.0	1424.5	2200.4	2576.0	2699.3	2632.6	2488.5	1630.6
57.5°	232.0	239.8	282.1	395.4	700.5	1327.8	1745.2	1853.4	2024.6	2043.5	1250.9
60°	156.9	157.9	169.4	197.9	293.2	623.6	915.4	1045.2	1167.6	1159.4	663.7
62.5°	123.3	126.6	135.3	146.8	174.0	283.1	409.6	481.9	489.7	411.9	251.8
65°	105.4	105.9	114.6	124.3	136.2	164.8	197.4	201.1	203.4	196.1	185.0
67.5°	87.0	87.9	94.8	105.9	116.9	126.1	135.3	139.9	150.5	171.2	168.4
70°	69.0	70.4	76.4	85.6	95.7	101.3	112.8	116.9	126.6	142.7	149.1
72.5°	52.5	52.9	58.0	64.4	73.6	79.2	88.8	93.4	99.9	113.7	119.7
75°	37.7	39.1	42.8	46.0	47.4	51.1	60.3	65.4	74.6	80.5	81.0
77.5°	19.8	20.7	21.6	21.6	26.2	33.1	39.1	41.9	48.3	52.9	50.6
80°	7.8	8.3	10.6	14.3	18.4	23.9	28.1	29.5	35.0	37.7	39.1
82.5°	4.6	5.1	6.9	10.1	13.3	17.0	20.3	21.6	25.3	28.5	29.5
85°	2.3	2.8	4.1	6.4	8.7	10.6	10.1	9.7	9.7	9.2	9.7
87.5°	0.9	0.9	1.4	1.4	1.4	1.8	2.3	2.3	2.3	2.8	2.8
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°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1077.9	1059.5	1042.5	1011.2	977.1	967.4	927.9	913.6	903.5	891.5	887.8
5°	1083.4	1059.0	1004.3	941.2	891.0	826.6	784.3	738.7	705.6	697.3	695.0
7.5°	1094.9	1053.0	958.7	863.4	760.8	673.3	606.6	570.7	538.9	537.1	533.9
10°	1107.8	1035.1	909.0	759.4	628.2	547.2	507.2	491.5	483.7	481.9	481.0
12.5°	1118.4	1031.4	853.3	658.2	534.3	485.6	473.6	472.2	475.4	476.4	478.2
15°	1123.0	1016.7	786.1	567.5	475.9	457.9	463.0	468.5	470.8	476.8	472.2
17.5°	1131.7	997.8	703.3	495.7	443.2	446.4	455.2	461.6	465.3	469.4	463.5
20°	1136.3	980.8	625.5	452.9	431.7	437.7	449.7	454.7	459.3	461.2	454.3
22.5°	1132.2	945.8	556.9	418.4	420.7	428.5	439.1	444.6	441.8	434.5	430.3
25°	1121.2	896.6	485.6	396.3	405.0	418.8	427.1	423.0	417.9	413.8	412.4
27.5°	1120.7	836.3	434.0	376.0	391.7	410.5	407.8	404.1	406.4	403.2	399.5
30°	1123.0	777.8	391.7	364.5	382.0	391.2	394.4	390.7	393.5	387.5	389.4
32.5°	1111.0	720.7	364.1	351.2	370.5	370.0	380.6	383.4	376.9	364.5	366.4
35°	1116.1	674.7	340.6	345.2	357.6	357.6	365.9	362.7	345.6	338.3	340.1
37.5°	1151.1	629.6	329.1	336.9	345.2	348.9	346.1	332.3	328.2	328.2	329.1
40°	1184.2	591.0	322.2	335.1	333.7	336.0	315.7	317.1	317.1	317.6	315.3
42.5°	1213.7	564.7	316.6	324.0	326.3	314.3	301.9	300.5	303.8	303.3	301.5
45°	1224.3	543.1	308.8	311.6	313.4	293.6	287.7	284.9	288.6	290.0	291.8
47.5°	1183.7	525.1	300.1	294.6	290.9	278.0	270.2	265.1	269.7	277.5	279.4
50°	1131.7	501.7	286.3	275.7	267.9	262.3	256.8	251.8	255.0	260.5	259.1
52.5°	1054.9	464.8	268.8	257.7	244.4	245.8	240.7	237.9	239.8	239.8	238.4
55°	945.3	382.0	239.3	231.5	220.5	224.1	225.1	221.4	217.7	220.9	218.2
57.5°	645.3	269.7	213.6	213.6	202.5	207.6	207.1	198.4	189.6	190.5	188.7
60°	373.3	214.9	197.0	195.1	183.6	187.8	188.7	182.7	169.4	170.3	168.4
62.5°	212.2	183.6	172.1	169.4	167.1	170.8	170.8	162.9	151.4	152.3	150.5
65°	180.4	170.3	153.7	153.3	152.3	153.3	149.6	141.3	131.2	127.0	127.5
67.5°	163.8	157.4	141.3	137.2	134.4	133.9	127.0	119.2	114.6	110.9	110.5
70°	143.6	138.5	126.6	121.0	118.3	111.8	104.9	99.9	93.4	91.6	93.4
72.5°	113.7	113.2	108.6	102.6	96.7	91.6	85.6	78.7	72.7	71.3	68.1
75°	78.7	79.6	80.5	79.6	74.6	68.1	61.2	55.7	48.3	44.2	43.3
77.5°	51.5	52.9	54.3	52.5	49.2	43.3	38.7	31.8	26.2	23.0	22.6
80°	37.7	39.6	40.5	39.1	35.4	30.8	25.8	20.3	16.1	13.3	13.3
82.5°	29.0	30.8	31.8	29.5	25.8	22.1	18.4	14.3	11.0	8.7	8.3
85°	10.1	9.7	11.5	12.0	14.3	13.3	11.0	8.3	6.4	4.6	4.1
87.5°	2.8	2.8	3.2	3.2	2.8	2.3	2.3	2.3	1.8	1.4	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

(END OF REPORT)