

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: P526523

Luminaire Tested: **GALN-SA1C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509 lumens
Efficiency: N/A
Efficacy: 61.6 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

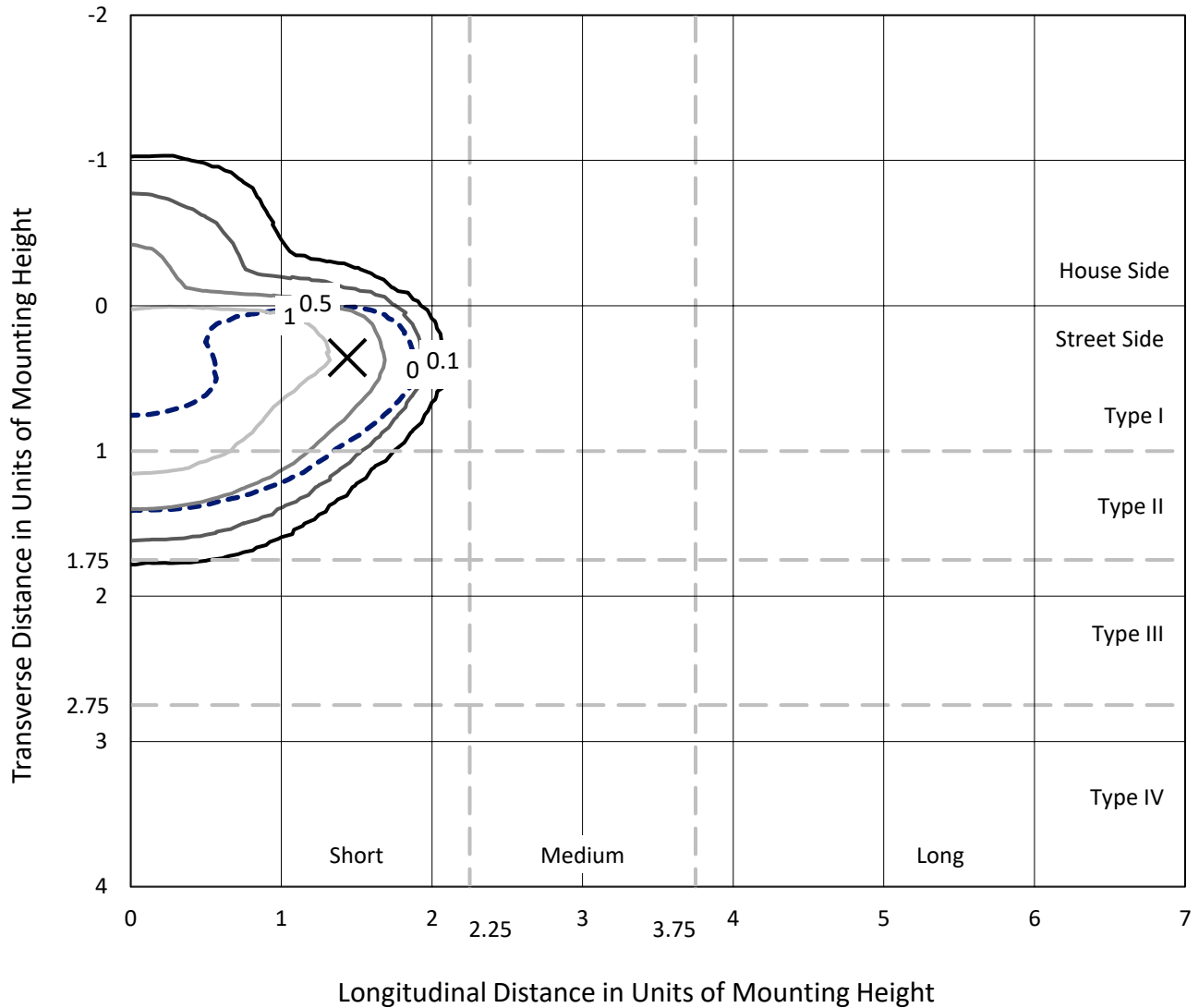
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

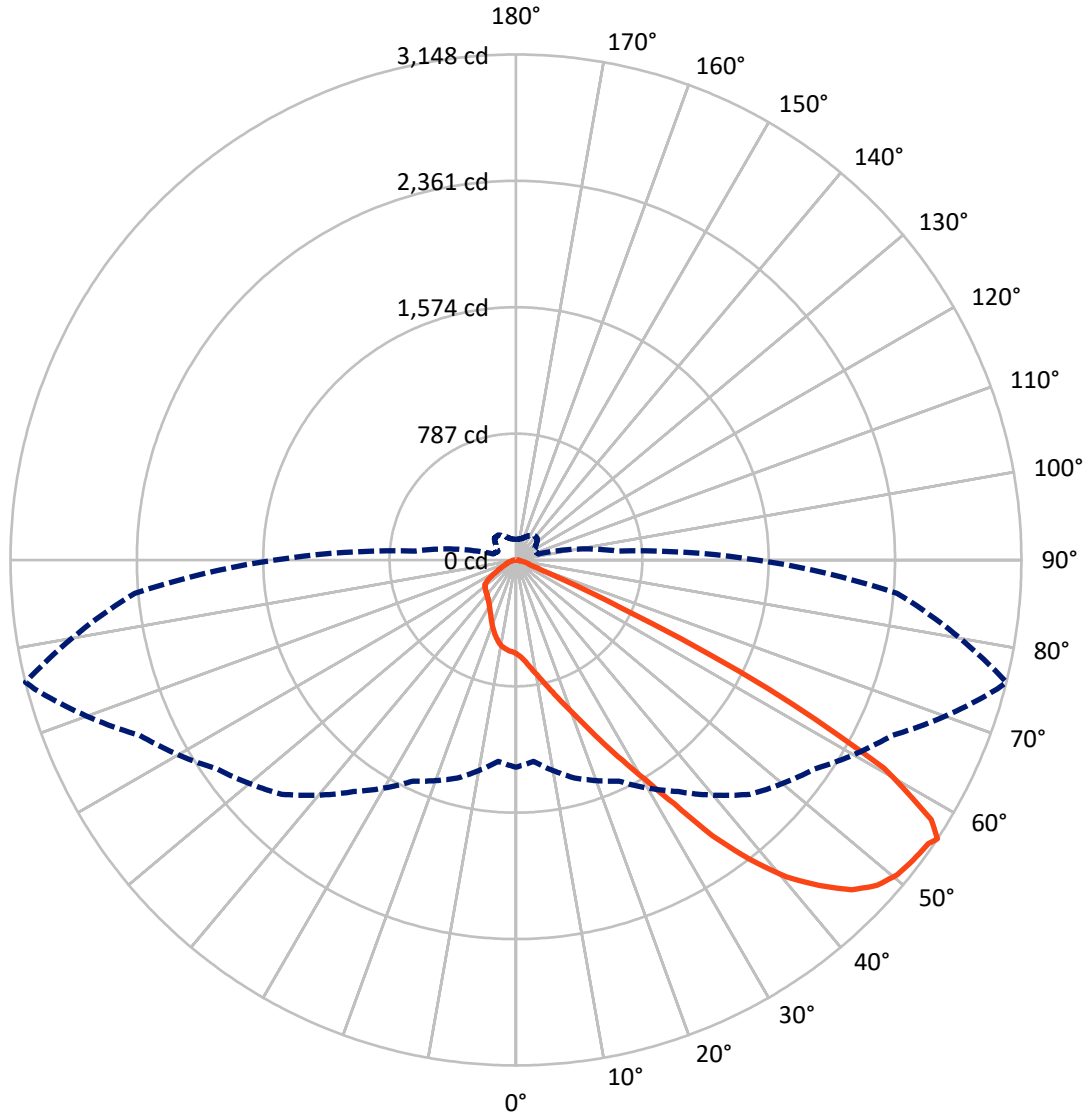
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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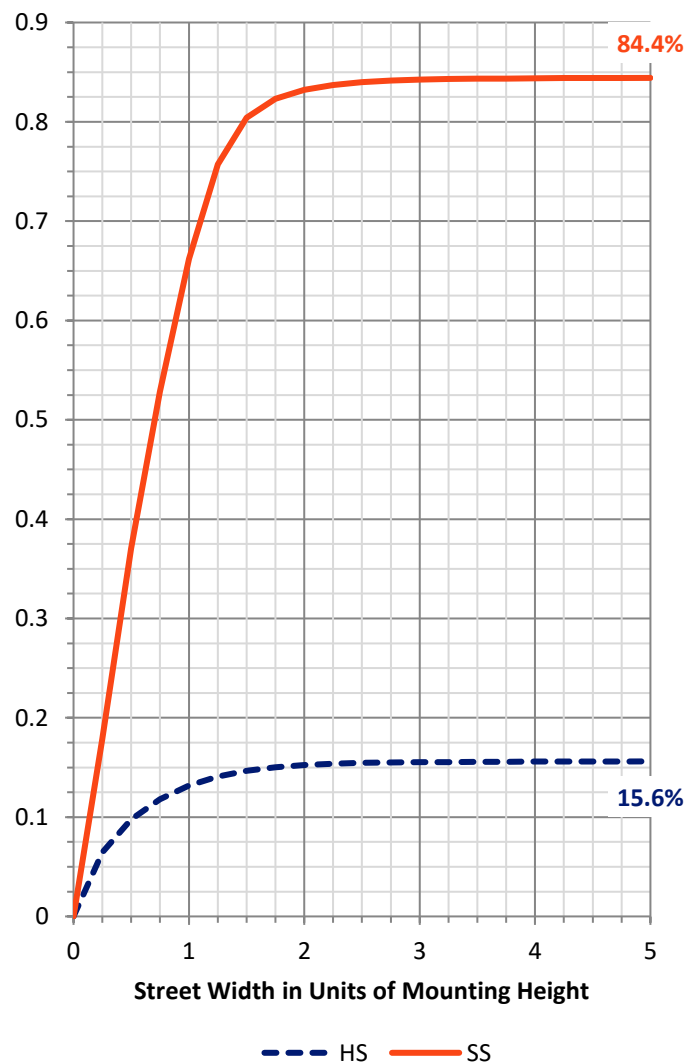
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.2	0.0	551.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2957.8	0.0	2957.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	3509.0	0.0	3509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	1.7
10°-20°	189.0	5.4
20°-30°	342.8	9.8
30°-40°	591.1	16.8
40°-50°	960.2	27.4
50°-60°	1012.1	28.8
60°-70°	309.3	8.8
70°-80°	39.6	1.1
80°-90°	6.0	0.2
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°	3509.0	100.0
0°-180°	3509.0	100.0

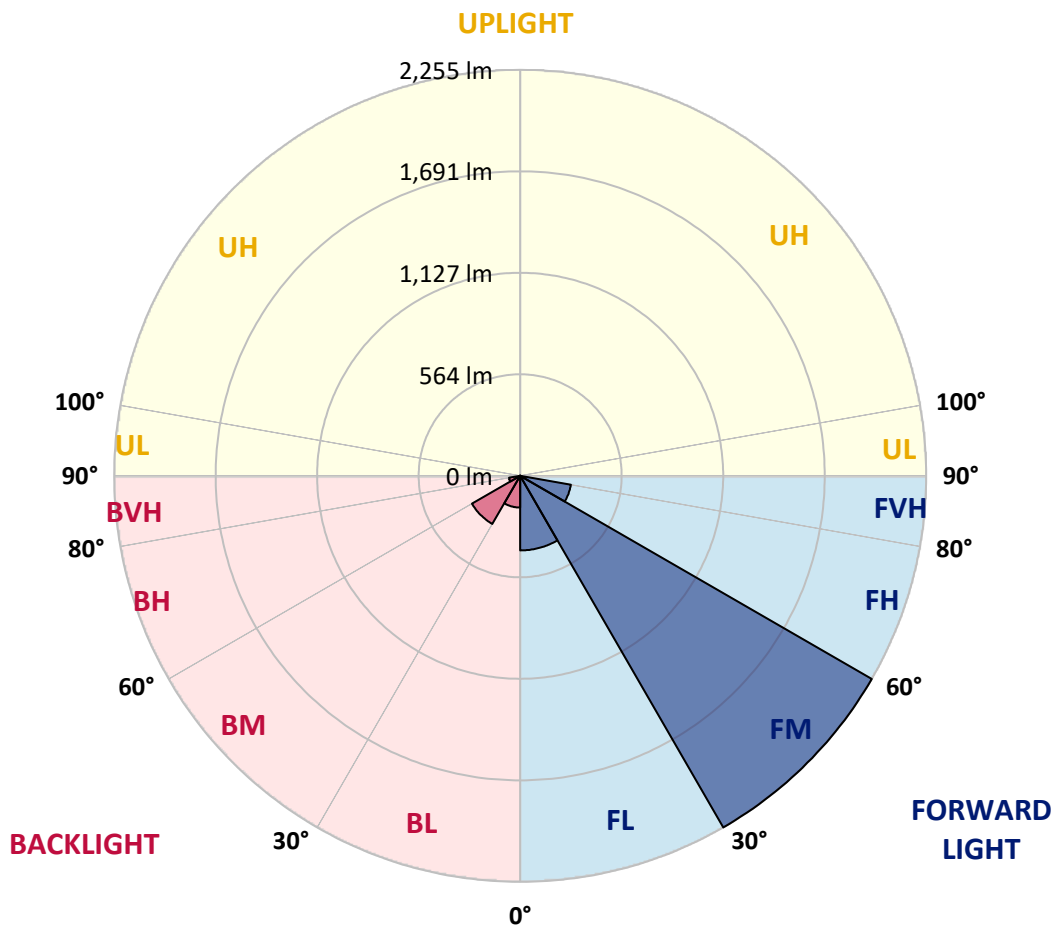


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.3	11.8			
FM (30°-60°)	2254.5	64.2			
FH (60°-80°)	286.0	8.2			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	176.3	5.0	B1/500		
BM (30°-60°)	308.9	8.8	B1/1000		
BH (60°-80°)	62.9	1.8	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			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°	55°	65°	75°	76°	85°
0°	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1
2.5°	672.7	657.2	657.8	656.5	654.6	647.5	626.1	622.9	608.7	604.8	591.8
5°	753.5	740.0	747.7	736.1	725.1	718.6	683.7	667.5	644.9	636.5	618.4
7.5°	804.0	797.5	794.9	795.6	785.2	769.1	753.5	718.0	687.6	681.1	642.9
10°	828.6	824.7	828.6	826.6	831.2	833.1	805.9	784.6	740.0	729.0	669.5
12.5°	834.4	842.2	845.4	853.8	864.8	883.6	881.6	852.5	793.0	785.9	710.2
15°	848.6	855.1	851.9	865.4	886.1	917.8	934.7	930.1	866.1	853.2	757.4
17.5°	861.6	849.9	860.9	888.1	908.8	957.3	998.0	1016.8	945.7	930.8	800.8
20°	879.0	875.8	873.9	887.4	924.3	989.0	1069.8	1104.1	1034.9	1019.4	862.9
22.5°	932.1	932.7	931.4	911.4	937.9	1011.0	1132.6	1217.3	1141.6	1128.7	933.4
25°	1001.9	993.5	987.0	970.9	967.6	1031.0	1196.0	1355.7	1269.7	1260.7	1009.7
27.5°	1075.7	1075.7	1056.3	1041.4	1020.7	1080.8	1254.2	1490.3	1424.3	1412.0	1076.3
30°	1155.9	1160.4	1157.8	1126.1	1113.2	1135.2	1313.7	1662.3	1601.5	1586.0	1186.3
32.5°	1274.2	1264.5	1275.5	1249.0	1210.8	1230.3	1407.5	1816.3	1831.8	1809.8	1330.5
35°	1430.8	1424.9	1417.8	1374.5	1329.2	1344.7	1540.1	2005.8	2120.9	2109.9	1476.0
37.5°	1571.1	1567.9	1562.1	1532.3	1479.9	1498.7	1690.8	2203.1	2402.9	2366.7	1681.7
40°	1718.6	1736.1	1717.3	1690.8	1642.9	1684.3	1868.0	2320.1	2640.3	2596.3	1838.9
42.5°	1918.5	1904.9	1913.3	1864.8	1838.9	1884.2	2045.9	2437.2	2824.7	2772.3	2005.8
45°	2131.3	2131.9	2109.3	2093.8	2026.5	2075.6	2155.2	2501.9	2971.5	2930.7	2131.9
47.5°	2267.8	2267.1	2291.7	2316.3	2247.1	2198.5	2229.6	2563.3	3047.2	3028.4	2177.8
50°	2246.4	2252.9	2284.6	2376.4	2412.6	2347.3	2299.4	2545.2	3081.4	3079.5	2217.3
52.5°	1954.0	1975.4	2028.4	2161.0	2343.4	2424.3	2372.5	2578.9	3098.3	3101.5	2276.2
55°	1487.7	1499.3	1600.2	1761.3	1963.1	2239.9	2343.4	2605.4	3111.2	3117.0	2347.3
56°	1290.4	1259.4	1404.9	1519.4	1760.6	2063.4	2269.7	2584.7	3103.4	3148.1	2382.9
57.5°	974.1	953.4	1071.1	1214.1	1446.3	1765.8	2040.7	2487.0	3051.0	3050.4	2331.8
60°	592.5	571.8	662.3	746.4	876.4	1087.3	1379.0	1980.6	2579.5	2633.9	1888.1
62.5°	352.5	365.5	454.7	505.8	547.9	569.8	713.4	1177.2	1721.2	1760.0	1171.4
65°	234.8	239.3	306.6	390.7	409.4	326.0	290.4	476.7	746.4	722.5	483.2
67.5°	144.9	155.2	205.7	293.7	325.4	238.0	137.8	177.9	205.7	205.7	139.7
70°	88.0	93.1	137.1	199.9	223.2	153.3	100.3	100.3	99.0	97.0	83.4
72.5°	42.0	45.3	69.9	102.8	104.8	80.9	77.6	84.7	82.8	82.1	69.2
75°	18.1	19.4	24.6	32.3	36.9	34.3	47.2	60.8	62.7	60.8	49.8
77.5°	5.8	6.5	9.1	11.6	12.3	14.9	20.1	25.2	29.1	27.2	24.6
80°	0.6	1.3	2.6	5.8	9.1	11.6	14.9	16.8	18.8	18.8	17.5
82.5°	0.6	0.6	2.6	5.2	8.4	11.0	14.2	16.2	18.8	19.4	18.1
85°	0.0	0.6	1.9	4.5	7.1	7.1	6.5	6.5	4.5	4.5	4.5
87.5°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1
2.5°	589.3	588.0	570.5	559.5	553.7	542.0	534.9	529.7	525.9	521.3	522.0
5°	597.0	592.5	563.4	543.3	519.4	506.5	495.5	486.4	480.6	479.3	476.7
7.5°	619.0	595.1	551.1	514.9	484.5	471.5	461.8	456.0	458.6	452.8	457.3
10°	635.8	600.2	536.2	483.8	453.4	443.7	438.5	443.1	449.5	447.0	443.7
12.5°	656.5	605.4	512.3	454.1	425.6	418.5	427.5	436.0	448.9	454.1	447.6
15°	679.8	611.2	481.9	419.8	401.7	407.5	423.0	437.9	450.8	457.3	461.2
17.5°	708.3	609.3	452.1	392.6	379.0	395.9	414.6	428.2	447.6	457.3	454.7
20°	734.8	602.8	419.1	365.5	366.1	381.6	397.1	419.1	429.5	442.4	437.9
22.5°	760.0	591.2	384.9	346.7	346.7	370.6	378.4	392.6	401.7	408.1	407.5
25°	795.6	569.2	356.4	328.6	336.3	351.9	358.3	362.9	359.0	364.2	364.8
27.5°	820.8	546.6	333.1	312.4	326.6	338.3	336.3	333.8	324.7	317.6	322.1
30°	848.0	520.0	313.1	301.4	309.2	319.5	311.8	304.0	289.8	278.1	278.8
32.5°	886.8	507.8	295.6	288.5	298.8	300.1	291.7	280.1	265.8	254.8	254.2
35°	959.2	500.0	280.7	280.1	282.0	282.7	274.3	260.0	254.2	245.1	248.4
37.5°	1031.7	496.1	270.4	267.8	267.1	267.8	258.1	244.5	255.5	254.8	256.1
40°	1124.2	513.6	255.5	252.3	252.9	252.9	240.6	236.7	256.1	258.1	258.7
42.5°	1218.0	535.6	245.8	235.4	238.0	238.0	231.6	227.0	240.6	227.7	225.7
45°	1299.5	567.9	235.4	218.6	225.1	228.3	226.4	218.6	210.2	188.2	188.2
47.5°	1326.0	596.4	223.2	202.5	207.6	221.9	216.0	199.9	185.0	166.9	165.6
50°	1372.6	627.4	213.5	183.7	194.7	212.2	206.3	190.2	173.3	160.4	161.1
52.5°	1420.4	663.0	195.3	161.7	175.3	204.4	204.4	186.3	160.4	151.4	150.1
55°	1492.2	661.7	163.0	132.6	156.5	192.8	196.0	166.9	143.6	136.5	136.5
56°	1502.6	631.9	146.8	124.2	148.1	189.5	190.2	161.7	137.1	129.4	129.4
57.5°	1424.9	570.5	128.7	113.8	137.8	183.7	184.3	157.2	132.0	121.0	119.7
60°	1096.4	386.2	107.4	101.6	124.8	165.6	168.8	142.9	115.8	107.4	106.7
62.5°	619.0	214.1	94.4	91.8	107.4	141.0	150.7	124.8	98.3	93.8	95.1
65°	282.7	117.7	79.6	74.4	86.7	108.7	121.6	102.8	80.9	75.7	75.7
67.5°	103.5	80.2	67.9	58.9	60.8	70.5	78.9	66.6	53.7	45.9	47.9
70°	73.7	67.3	59.5	51.1	47.2	45.9	45.3	37.5	26.5	20.7	22.0
72.5°	59.5	55.6	49.8	43.3	36.9	31.0	26.5	19.4	12.3	8.4	7.8
75°	42.7	40.7	36.2	31.0	25.9	22.0	18.1	12.3	6.5	3.2	3.2
77.5°	22.0	22.0	21.3	19.4	16.2	12.9	10.3	7.1	3.9	1.3	1.3
80°	16.8	18.1	18.8	16.8	14.9	11.6	8.4	5.2	2.6	0.6	0.6
82.5°	16.2	18.8	20.1	17.5	14.9	11.0	8.4	5.2	2.6	0.6	0.6
85°	3.9	3.9	5.8	6.5	8.4	9.1	7.1	4.5	1.9	0.6	0.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	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)