

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: P648227

Luminaire Tested: **GALN-SA1B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

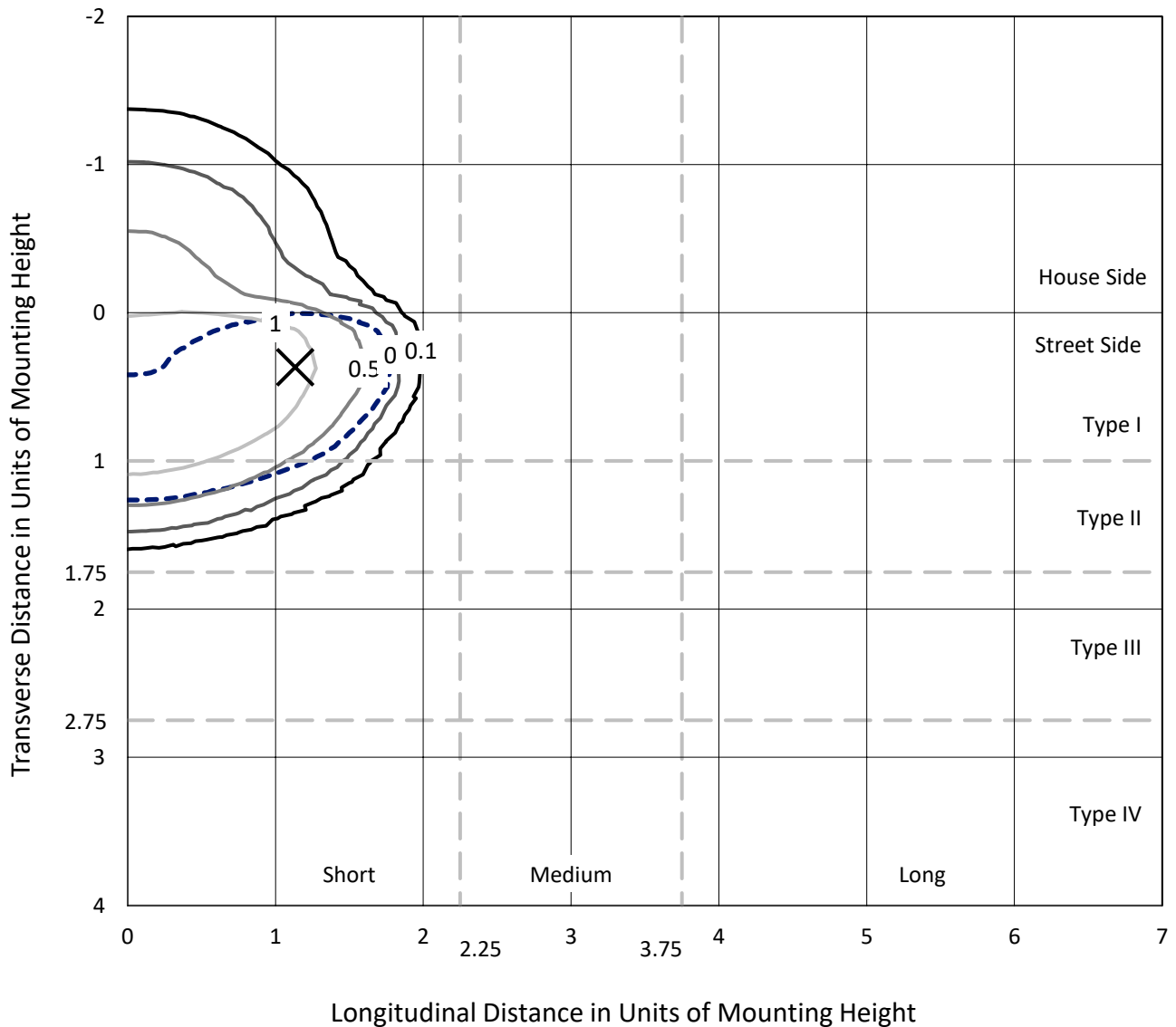
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

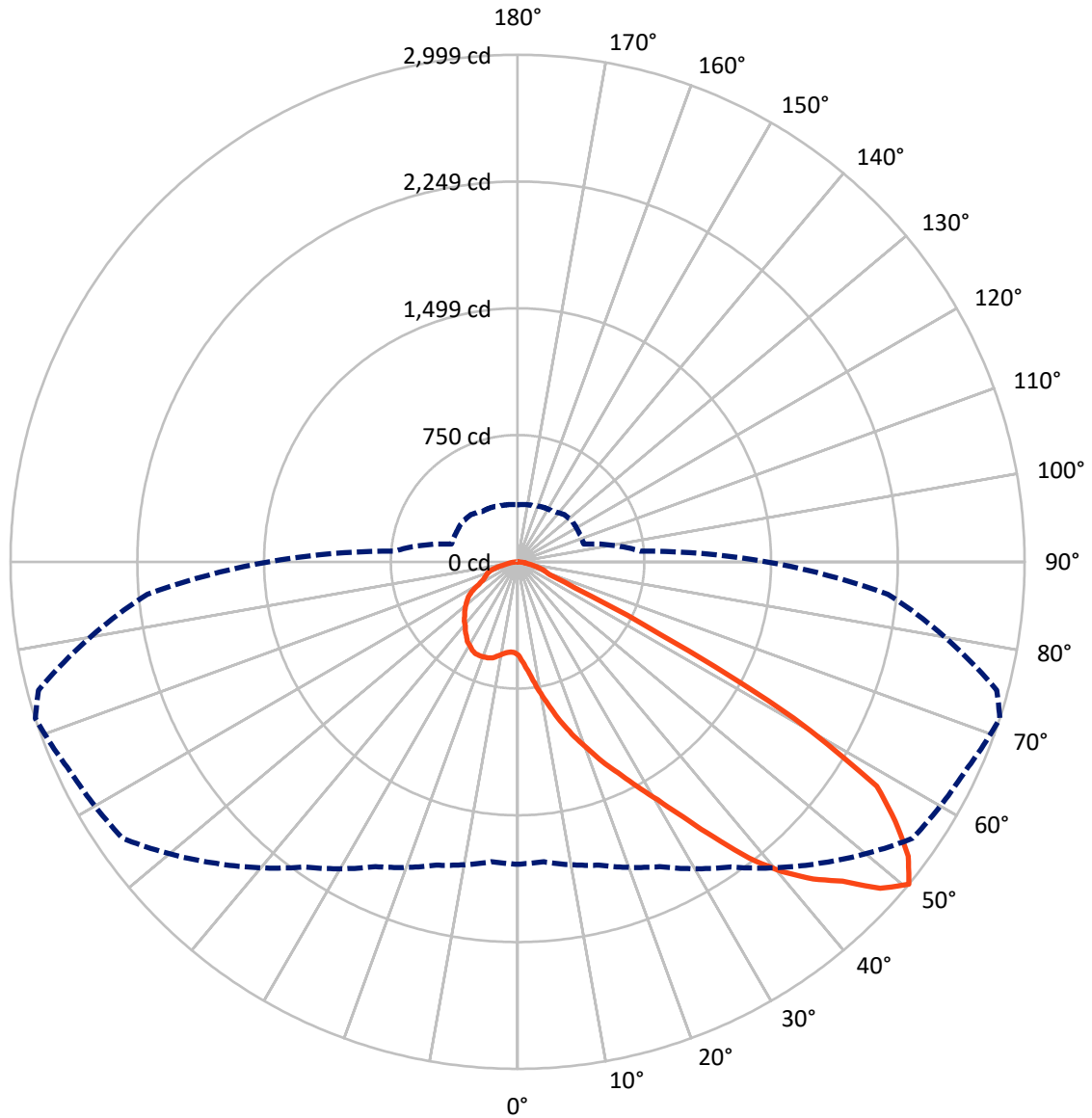
× Max cd
 - - - 1/2 Max cd



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 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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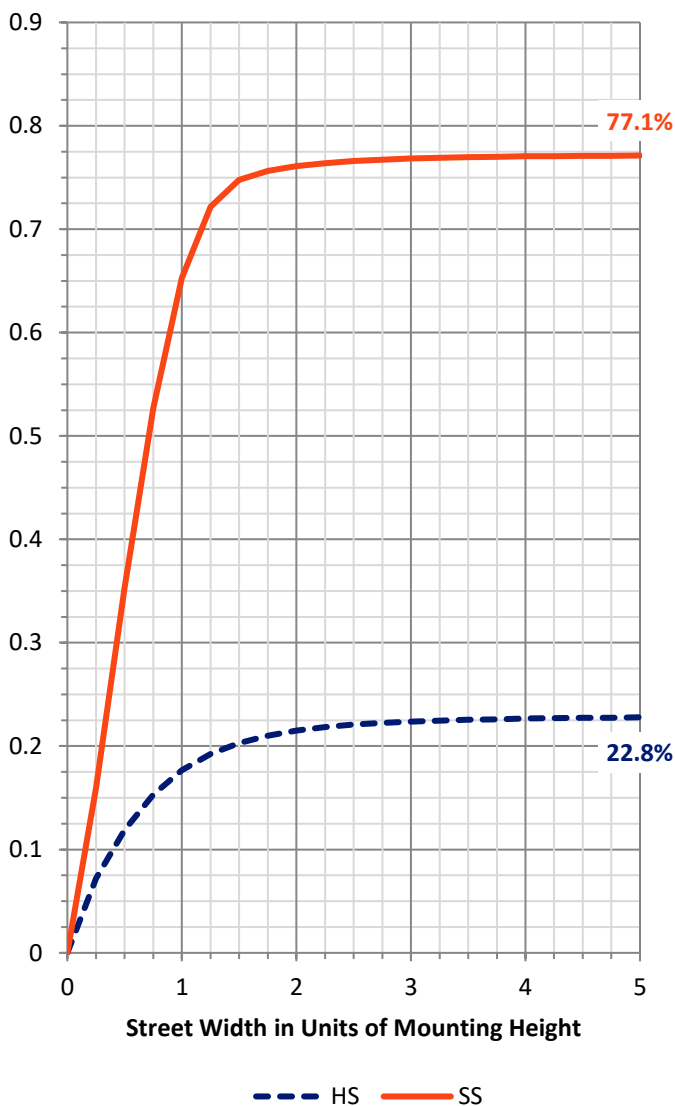
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	907.7	0.0	907.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3054.3	0.0	3054.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	3962.0	0.0	3962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.6
10°-20°	242.5	6.1
20°-30°	470.2	11.9
30°-40°	779.0	19.7
40°-50°	1090.0	27.5
50°-60°	919.6	23.2
60°-70°	280.3	7.1
70°-80°	98.3	2.5
80°-90°	17.1	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°	3962.0	100.0
0°-180°	3962.0	100.0

Coefficient of Utilization

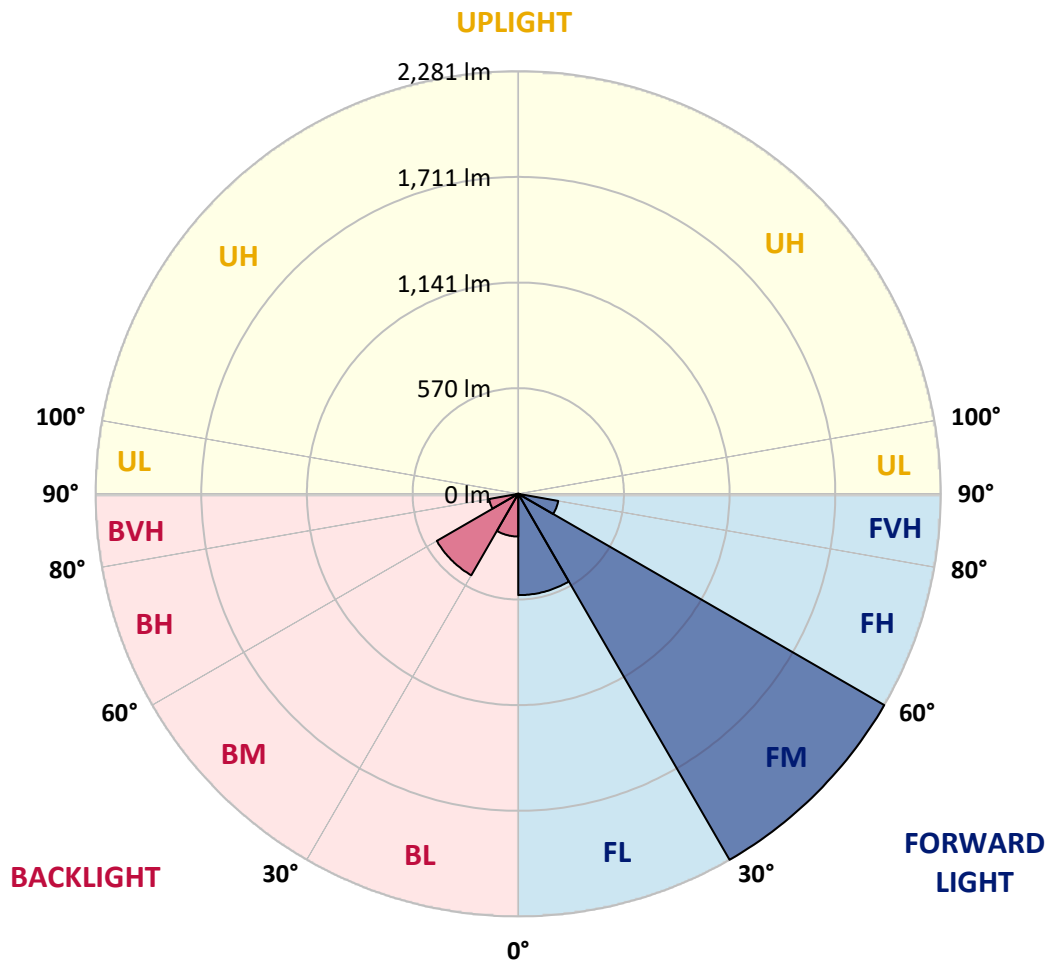


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.9	13.8			
FM (30°-60°)	2281.0	57.6			
FH (60°-80°)	218.7	5.5			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	230.7	5.8	B1/500		
BM (30°-60°)	507.6	12.8	B1/1000		
BH (60°-80°)	159.9	4.0	B1/500		G1/500
BVH (80°-90°)	9.4	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	709.4	705.0	691.8	687.3	671.7	643.2	633.4	604.5	592.3	581.0	567.8
5°	897.2	876.6	875.1	850.1	813.9	792.8	730.0	687.9	649.1	629.5	593.2
7.5°	1016.8	1017.3	1017.3	996.7	967.8	914.3	857.9	782.0	723.6	694.7	632.9
10°	1130.6	1120.7	1115.3	1113.3	1093.8	1041.8	981.5	887.4	807.4	773.6	662.8
12.5°	1210.9	1202.6	1214.8	1208.5	1194.3	1160.4	1103.6	996.2	896.2	850.6	710.9
15°	1249.2	1255.1	1264.9	1282.6	1276.1	1263.4	1200.7	1108.0	991.8	940.3	753.6
17.5°	1308.0	1291.8	1303.6	1325.7	1343.3	1337.4	1301.7	1188.9	1086.4	1023.1	810.9
20°	1349.2	1339.9	1345.7	1371.3	1384.5	1417.9	1399.2	1294.8	1177.1	1110.5	878.5
22.5°	1466.9	1453.1	1434.0	1437.9	1442.8	1466.4	1470.8	1411.0	1282.6	1211.9	942.7
25°	1612.0	1599.2	1576.6	1553.6	1539.4	1535.0	1550.2	1502.2	1383.5	1310.4	1011.9
27.5°	1771.8	1750.2	1736.0	1688.5	1650.3	1644.3	1636.9	1611.0	1503.1	1424.2	1089.9
30°	1927.2	1910.1	1890.9	1814.9	1775.2	1768.9	1732.5	1739.9	1633.0	1545.3	1178.1
32.5°	2044.9	2046.4	2002.7	1945.4	1908.1	1874.3	1861.0	1882.1	1799.7	1729.2	1276.6
35°	2140.0	2144.4	2102.7	2050.8	2010.6	2034.1	2028.2	2038.0	1998.8	1912.5	1391.4
37.5°	2232.6	2210.6	2165.9	2141.0	2119.9	2158.6	2208.6	2217.0	2224.3	2122.8	1524.7
40°	2247.8	2249.8	2223.8	2241.5	2215.0	2273.4	2389.6	2378.8	2408.7	2319.9	1669.4
42.5°	2226.3	2230.7	2240.9	2266.0	2329.7	2399.8	2572.4	2528.2	2564.6	2485.6	1810.1
45°	2191.0	2172.8	2185.6	2280.7	2391.0	2546.9	2739.6	2705.3	2693.5	2627.3	1977.7
47.5°	2022.3	2041.0	2080.7	2197.8	2363.6	2572.4	2858.2	2850.4	2885.7	2839.1	2130.2
50°	1788.5	1781.1	1857.6	1989.4	2203.2	2522.4	2851.8	2922.9	2998.9	2934.2	2198.4
52.5°	1339.4	1378.6	1444.3	1608.0	1913.0	2249.8	2712.6	2831.2	2893.0	2879.3	2143.4
55°	846.7	858.5	898.2	1092.8	1367.4	1805.6	2325.3	2600.3	2710.7	2762.1	2092.9
57.5°	411.3	389.2	437.8	594.2	789.8	1214.4	1793.4	2265.0	2504.7	2597.9	1983.1
60°	214.7	223.1	242.2	298.1	408.4	630.5	1117.8	1509.5	1875.8	2018.9	1503.1
62.5°	178.0	180.9	193.6	221.6	271.6	362.8	570.7	735.9	956.5	1085.4	855.0
65°	151.0	152.5	166.2	184.9	216.7	255.4	293.7	307.4	372.1	381.9	304.0
67.5°	126.0	127.5	142.2	159.8	180.4	190.7	200.5	199.5	206.9	204.0	203.4
70°	97.1	98.6	113.8	132.4	142.7	136.8	167.2	174.1	177.0	179.5	183.4
72.5°	70.1	73.1	84.8	98.0	92.6	106.4	137.7	148.1	152.0	153.5	158.3
75°	51.0	52.0	54.9	51.0	58.8	74.0	97.1	109.9	114.7	116.2	123.6
77.5°	22.6	23.0	23.6	29.4	37.7	46.1	57.9	68.1	75.0	77.0	78.9
80°	11.7	12.3	15.2	20.1	26.9	33.8	42.1	48.1	52.5	52.9	54.9
82.5°	7.4	7.8	10.8	14.3	19.1	25.0	30.9	35.8	39.2	39.7	40.2
85°	3.4	4.4	6.3	8.8	12.8	16.2	16.7	14.3	15.2	15.7	14.7
87.5°	1.0	1.5	2.0	1.5	2.0	2.0	2.4	3.0	3.0	3.0	3.4
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°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	560.4	555.9	538.8	532.4	515.8	518.7	509.9	509.3	507.4	506.9	506.4
5°	574.1	560.4	539.8	524.1	514.7	513.8	507.4	507.4	509.3	510.8	507.4
7.5°	596.6	581.0	546.1	531.4	523.1	521.6	517.2	513.8	518.2	516.7	512.8
10°	622.6	595.2	558.4	545.7	531.9	528.5	528.5	529.9	522.7	525.1	521.2
12.5°	651.5	614.8	574.1	559.4	543.2	541.2	540.3	529.5	533.4	531.4	521.6
15°	688.3	637.4	594.2	569.2	555.5	546.6	533.9	531.9	529.5	524.6	520.1
17.5°	728.0	661.9	603.5	572.1	551.5	545.2	535.3	525.1	517.7	518.7	515.3
20°	761.9	684.4	606.9	575.0	548.6	536.4	521.2	514.7	506.9	506.4	506.0
22.5°	802.0	714.8	611.8	567.2	539.8	527.0	516.7	505.4	500.1	493.2	496.7
25°	850.1	726.5	612.9	562.8	533.4	510.8	505.4	493.2	491.3	481.5	483.4
27.5°	884.9	733.0	604.9	549.1	518.7	501.5	491.7	482.9	479.5	472.1	470.2
30°	931.5	742.8	588.3	531.9	504.0	484.8	479.0	477.0	467.2	459.4	458.4
32.5°	984.5	749.1	577.5	514.3	488.8	474.1	477.0	467.7	455.5	448.6	446.6
35°	1026.6	751.6	550.5	494.2	478.5	469.2	465.7	463.8	446.2	439.7	434.9
37.5°	1090.8	746.2	528.0	480.0	467.2	463.8	460.9	447.6	427.5	418.2	411.3
40°	1165.8	744.7	499.1	459.9	456.4	460.3	451.6	431.0	403.0	392.7	387.8
42.5°	1237.9	755.0	480.9	449.1	444.7	446.2	433.9	403.0	389.2	383.4	375.5
45°	1358.5	776.6	451.0	432.4	430.4	429.5	414.8	382.4	374.6	367.2	365.7
47.5°	1467.3	762.3	431.9	415.2	417.2	411.8	380.5	370.1	361.4	354.0	351.5
50°	1473.7	728.5	405.0	402.0	402.5	393.2	363.3	356.4	345.1	340.2	336.8
52.5°	1440.4	673.1	379.9	380.9	382.4	367.2	342.2	337.3	328.0	321.1	319.2
55°	1346.8	586.9	355.4	359.4	363.3	334.3	326.5	314.2	306.9	297.1	297.6
57.5°	1186.4	472.6	321.1	327.5	335.8	304.0	298.1	282.9	272.1	264.3	263.2
60°	795.2	336.3	269.7	272.1	290.7	278.0	277.5	262.3	247.6	240.7	236.8
62.5°	469.2	256.9	232.9	230.4	230.0	237.2	249.5	244.1	225.0	211.8	215.7
65°	245.6	222.1	216.7	208.4	203.4	201.5	210.8	213.3	200.5	186.3	185.3
67.5°	206.4	206.4	202.0	199.0	192.1	183.8	178.0	170.1	168.2	164.3	159.3
70°	187.8	192.7	191.2	184.3	178.4	169.1	153.9	141.2	129.0	124.5	127.5
72.5°	163.7	168.7	168.7	165.2	157.4	143.1	128.4	113.8	103.4	95.6	94.6
75°	126.0	128.4	134.4	130.4	120.1	111.3	96.1	80.9	71.1	63.7	62.2
77.5°	80.4	84.3	84.3	83.9	76.5	68.1	58.3	47.5	40.2	34.8	33.4
80°	53.4	55.9	57.9	55.9	51.0	44.6	37.3	29.9	24.5	20.1	19.1
82.5°	39.2	42.1	43.6	41.7	36.8	31.9	26.5	21.1	15.7	12.3	11.3
85°	15.2	15.7	17.6	21.1	20.6	20.1	16.2	11.7	8.8	6.3	5.9
87.5°	3.9	3.4	3.9	3.9	3.4	3.0	3.0	3.0	3.0	1.5	2.0
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)