

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: P652158

Luminaire Tested: **GALN-SA1B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652158
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-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4369 lumens
Efficiency: N/A
Efficacy: 99.3 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

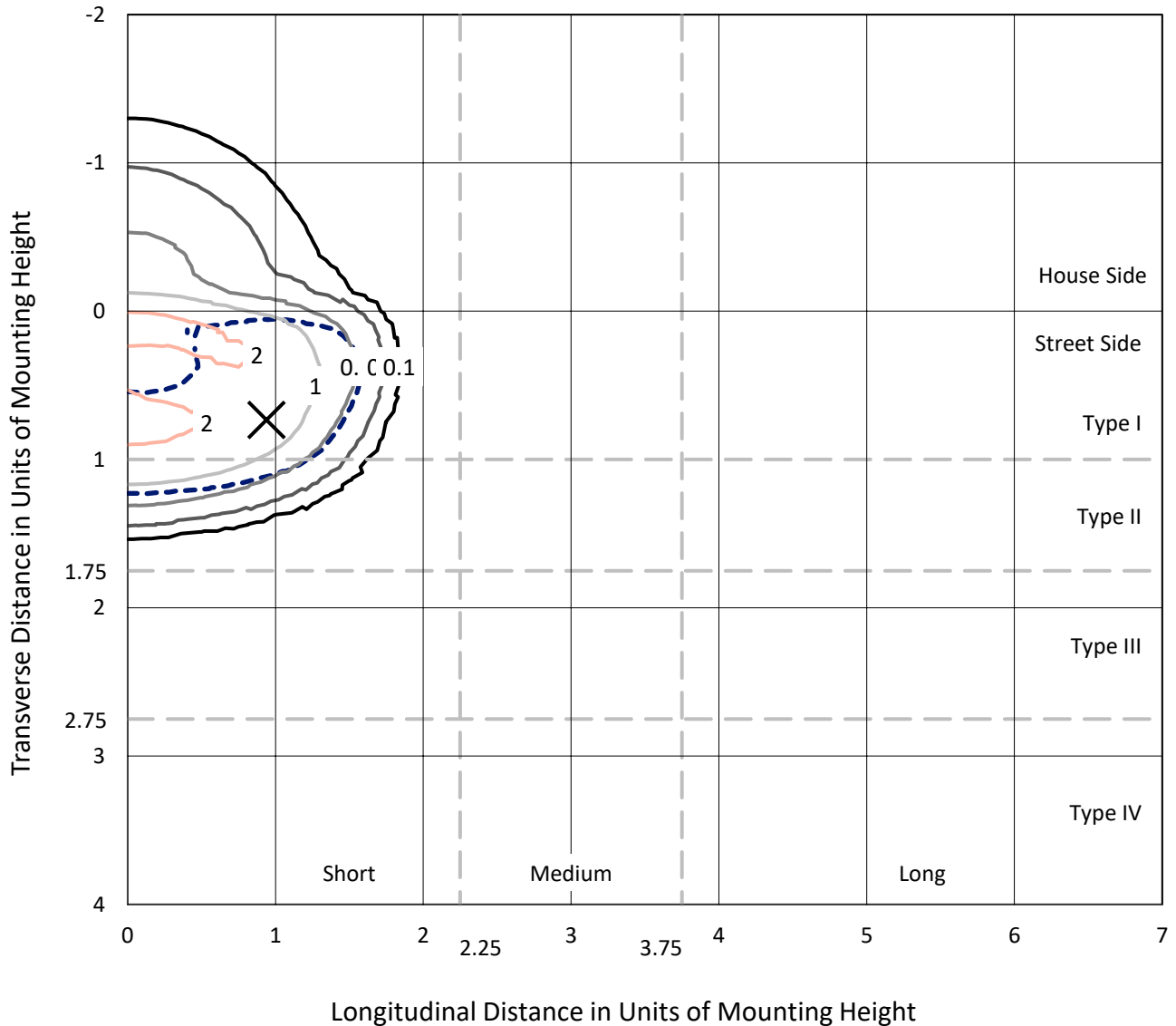
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

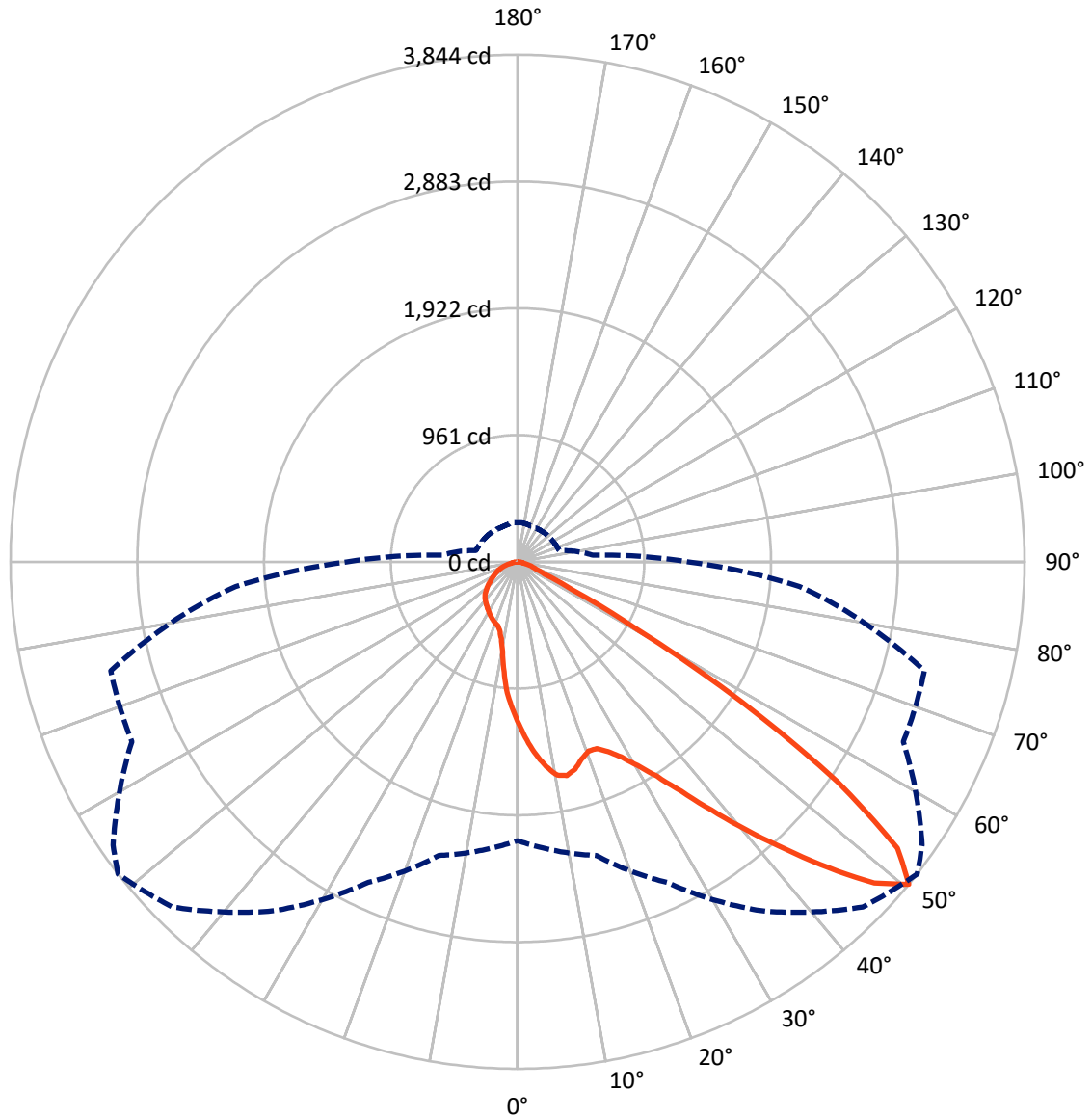
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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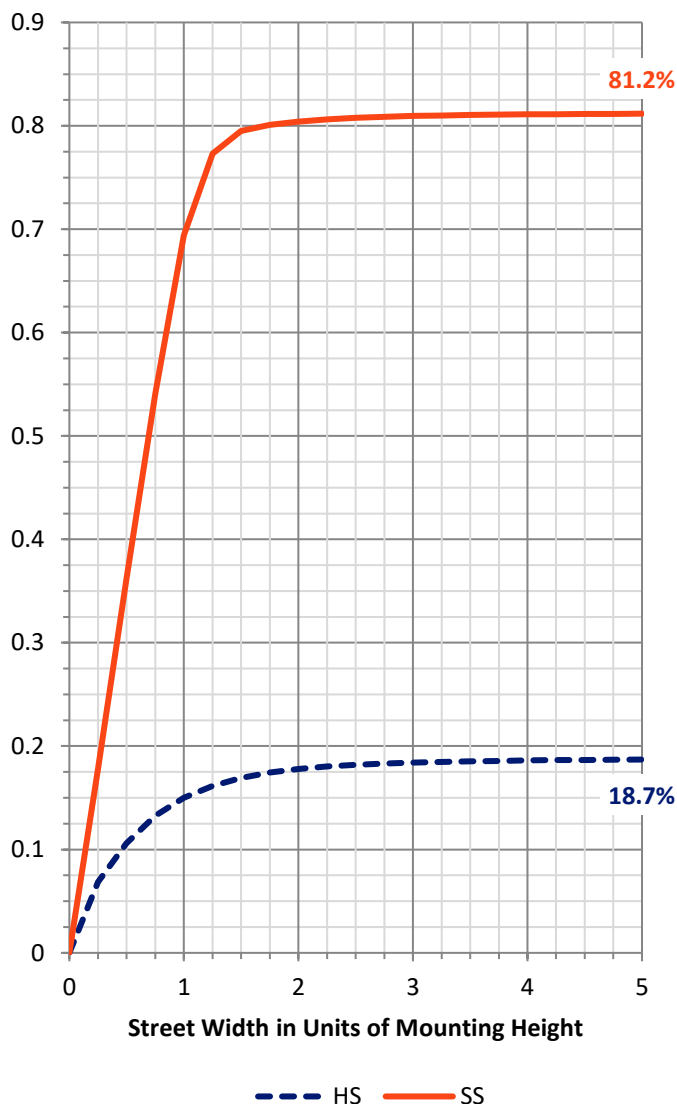
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	821.3	0.0	821.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3547.7	0.0	3547.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	4369.0	0.0	4369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.6
10°-20°	304.2	7.0
20°-30°	512.5	11.7
30°-40°	860.0	19.7
40°-50°	1315.6	30.1
50°-60°	959.1	22.0
60°-70°	213.5	4.9
70°-80°	77.0	1.8
80°-90°	13.6	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°	4369.0	100.0
0°-180°	4369.0	100.0

Coefficient of Utilization

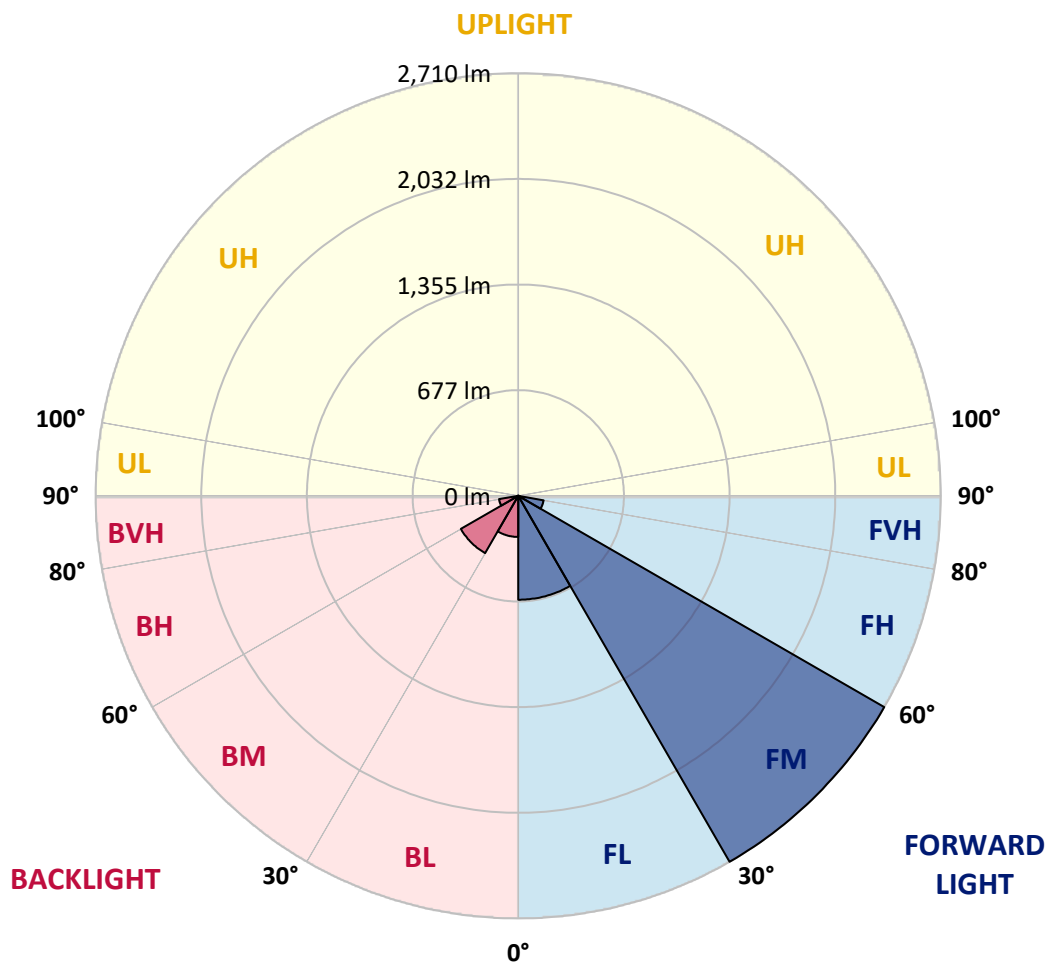


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.4	15.3			
FM (30°-60°)	2709.9	62.0			
FH (60°-80°)	165.3	3.8			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	263.8	6.0	B1/500		
BM (30°-60°)	424.8	9.7	B1/1000		
BH (60°-80°)	125.1	2.9	B1/500		G1/500
BVH (80°-90°)	7.5	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°	52°	55°	65°	75°	85°
0°	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6
2.5°	1450.1	1422.1	1425.3	1405.3	1383.7	1377.4	1355.3	1334.2	1318.4	1284.7	1253.7
5°	1584.9	1576.5	1563.8	1548.0	1531.6	1491.7	1469.0	1442.7	1384.8	1332.6	1281.0
7.5°	1604.3	1602.8	1609.6	1609.6	1615.4	1600.1	1568.0	1549.5	1488.0	1403.2	1307.3
10°	1467.5	1472.2	1505.3	1548.5	1608.6	1650.1	1644.9	1640.1	1572.8	1456.9	1338.5
12.5°	1358.5	1347.9	1367.4	1404.2	1494.3	1594.9	1662.7	1663.3	1645.9	1542.7	1361.1
15°	1296.8	1304.2	1309.4	1326.8	1394.8	1511.1	1630.6	1665.9	1742.3	1603.3	1396.9
17.5°	1336.3	1311.5	1310.5	1314.7	1349.5	1436.9	1571.2	1631.7	1794.9	1681.2	1441.1
20°	1387.9	1387.4	1372.7	1367.4	1366.9	1444.8	1532.2	1614.3	1822.9	1782.3	1485.9
22.5°	1478.5	1478.5	1454.3	1442.7	1417.9	1481.7	1537.4	1593.3	1869.2	1851.8	1507.4
25°	1630.1	1605.4	1563.8	1535.3	1521.1	1543.7	1593.3	1643.3	1909.7	1925.5	1552.2
27.5°	1770.2	1731.2	1710.7	1661.7	1642.7	1629.6	1674.9	1725.4	1957.1	2040.3	1576.5
30°	1929.2	1922.4	1885.5	1822.3	1775.4	1751.2	1792.8	1842.9	2044.0	2157.7	1632.2
32.5°	2213.5	2151.4	2101.4	2024.0	1947.6	1896.0	1937.1	1970.3	2188.3	2280.4	1693.4
35°	2520.5	2500.5	2414.1	2274.6	2157.7	2111.4	2135.6	2160.4	2356.2	2467.8	1796.0
37.5°	2822.2	2794.8	2723.7	2606.3	2464.1	2369.9	2387.3	2416.2	2544.7	2720.6	1921.3
40°	3039.1	3005.4	2969.7	2952.2	2811.1	2682.1	2672.1	2679.5	2799.5	2957.5	2060.3
42.5°	3054.9	3096.5	3107.6	3177.6	3144.4	3038.6	2977.0	2978.6	3042.8	3191.8	2200.9
45°	3021.7	2983.3	3064.9	3256.0	3365.6	3415.0	3311.4	3298.1	3193.4	3327.7	2271.0
47.5°	2673.7	2684.2	2822.2	3124.4	3440.9	3662.0	3637.7	3594.1	3273.9	3322.9	2259.9
50°	2113.5	2177.2	2305.1	2681.6	3230.3	3701.0	3843.6	3742.5	3226.0	3192.4	2147.2
52.5°	1407.4	1433.7	1518.0	2003.9	2597.3	3308.2	3606.7	3629.8	3181.8	3021.2	2004.5
55°	626.5	624.4	742.9	1046.7	1629.6	2517.4	2946.9	3088.1	3011.7	2847.0	1865.5
57.5°	265.3	274.3	322.8	452.3	801.4	1519.0	1996.6	2120.3	2316.2	2337.8	1431.1
60°	179.6	180.6	193.8	226.4	335.4	713.4	1047.3	1195.7	1335.8	1326.3	759.3
62.5°	141.1	144.8	154.8	167.9	199.1	323.8	468.6	551.3	560.2	471.2	288.0
65°	120.6	121.1	131.1	142.1	155.8	188.5	225.9	230.1	232.7	224.3	211.7
67.5°	99.5	100.6	108.5	121.1	133.7	144.2	154.8	160.0	172.2	195.9	192.7
70°	79.0	80.6	87.4	97.9	109.5	115.8	129.0	133.7	144.8	163.2	170.6
72.5°	60.0	60.6	66.4	73.8	84.3	90.6	101.6	106.9	114.3	130.0	136.9
75°	43.1	44.7	48.9	52.6	54.2	58.4	69.0	74.8	85.3	92.2	92.7
77.5°	22.6	23.7	24.7	24.7	30.0	37.9	44.7	47.9	55.3	60.6	57.9
80°	8.9	9.5	12.1	16.3	21.0	27.4	32.1	33.7	40.0	43.1	44.7
82.5°	5.3	5.8	7.9	11.6	15.3	19.5	23.1	24.7	28.9	32.6	33.7
85°	2.6	3.2	4.7	7.4	10.0	12.1	11.6	11.0	11.0	10.5	11.0
87.5°	1.1	1.1	1.6	1.6	1.6	2.1	2.6	2.6	2.6	3.2	3.2
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°	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6
2.5°	1233.2	1212.0	1192.6	1156.8	1117.9	1106.8	1061.5	1045.2	1033.6	1019.9	1015.7
5°	1239.5	1211.5	1148.9	1076.7	1019.4	945.6	897.2	845.0	807.2	797.7	795.1
7.5°	1252.6	1204.7	1096.7	987.8	870.4	770.3	694.0	652.9	616.5	614.4	610.7
10°	1267.4	1184.1	1039.9	868.8	718.7	626.0	580.2	562.3	553.4	551.3	550.2
12.5°	1279.5	1179.9	976.1	752.9	611.3	555.5	541.8	540.3	543.9	545.0	547.1
15°	1284.7	1163.1	899.3	649.2	544.5	523.9	529.7	536.0	538.7	545.5	540.3
17.5°	1294.7	1141.5	804.5	567.1	507.0	510.7	520.7	528.1	532.4	537.1	530.3
20°	1300.0	1122.1	715.5	518.1	493.9	500.7	514.4	520.2	525.5	527.6	519.7
22.5°	1295.2	1082.0	637.1	478.6	481.2	490.2	502.3	508.6	505.4	497.0	492.3
25°	1282.6	1025.7	555.5	453.3	463.3	479.1	488.6	483.9	478.1	473.3	471.8
27.5°	1282.1	956.7	496.5	430.2	448.1	469.7	466.5	462.3	464.9	461.2	457.0
30°	1284.7	889.9	448.1	417.0	437.0	447.6	451.2	447.0	450.2	443.4	445.5
32.5°	1271.0	824.5	416.5	401.7	423.9	423.4	435.5	438.6	431.3	417.0	419.2
35°	1276.8	771.9	389.6	394.9	409.1	409.1	418.6	414.9	395.4	387.0	389.1
37.5°	1316.8	720.3	376.4	385.4	394.9	399.1	395.9	380.1	375.4	375.4	376.4
40°	1354.8	676.1	368.6	383.3	381.7	384.3	361.2	362.8	362.8	363.3	360.7
42.5°	1388.5	646.1	362.2	370.7	373.3	359.6	345.4	343.8	347.5	347.0	344.9
45°	1400.6	621.3	353.3	356.5	358.6	335.9	329.1	325.9	330.1	331.7	333.8
47.5°	1354.3	600.7	343.3	337.0	332.8	318.0	309.1	303.3	308.6	317.5	319.6
50°	1294.7	573.9	327.5	315.4	306.5	300.2	293.8	288.0	291.7	298.1	296.5
52.5°	1206.8	531.8	307.5	294.9	279.5	281.1	275.3	272.2	274.3	274.3	272.7
55°	1081.5	437.0	273.8	264.8	252.2	256.4	257.4	253.2	249.0	252.7	249.6
57.5°	738.2	308.6	244.3	244.3	231.7	237.5	236.9	226.9	216.9	218.0	215.9
60°	427.0	245.9	225.4	223.3	210.1	214.8	215.9	209.1	193.8	194.8	192.7
62.5°	242.7	210.1	197.0	193.8	191.2	195.4	195.4	186.4	173.2	174.3	172.2
65°	206.4	194.8	175.9	175.3	174.3	175.3	171.1	161.6	150.0	145.3	145.8
67.5°	187.5	180.1	161.6	156.9	153.7	153.2	145.3	136.4	131.1	126.9	126.4
70°	164.2	158.4	144.8	138.5	135.3	127.9	120.0	114.3	106.9	104.8	106.9
72.5°	130.0	129.5	124.3	117.4	110.6	104.8	97.9	90.1	83.2	81.6	78.0
75°	90.1	91.1	92.2	91.1	85.3	78.0	70.1	63.7	55.3	50.5	49.5
77.5°	59.0	60.6	62.1	60.0	56.3	49.5	44.2	36.3	30.0	26.3	25.8
80°	43.1	45.2	46.3	44.7	40.5	35.2	29.5	23.1	18.4	15.3	15.3
82.5°	33.1	35.2	36.3	33.7	29.5	25.3	21.0	16.3	12.6	10.0	9.5
85°	11.6	11.0	13.2	13.7	16.3	15.3	12.6	9.5	7.4	5.3	4.7
87.5°	3.2	3.2	3.7	3.7	3.2	2.6	2.6	2.6	2.1	1.6	1.6
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)