

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: P652294

Luminaire Tested: **GALN-SA3B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11982.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

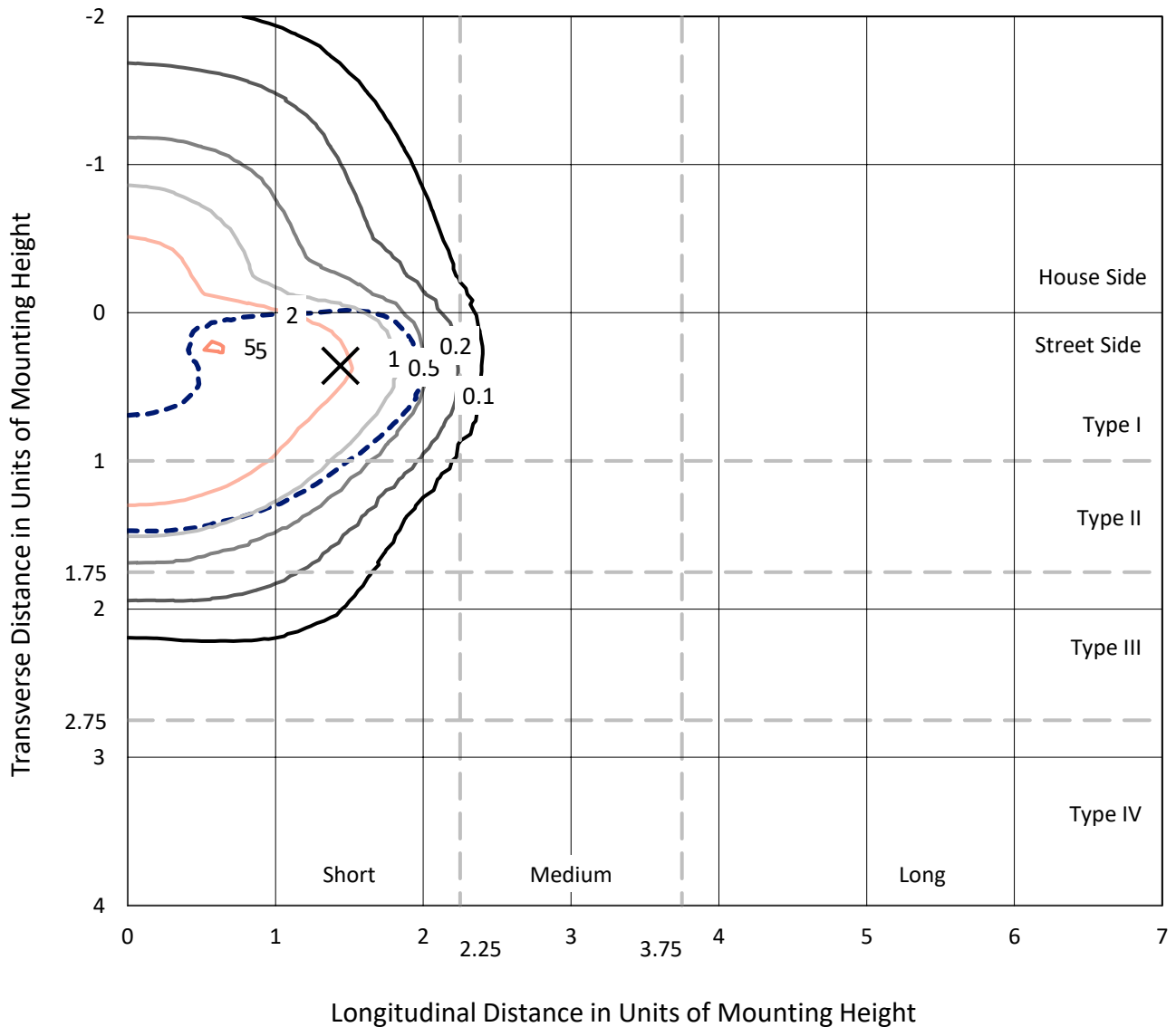
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

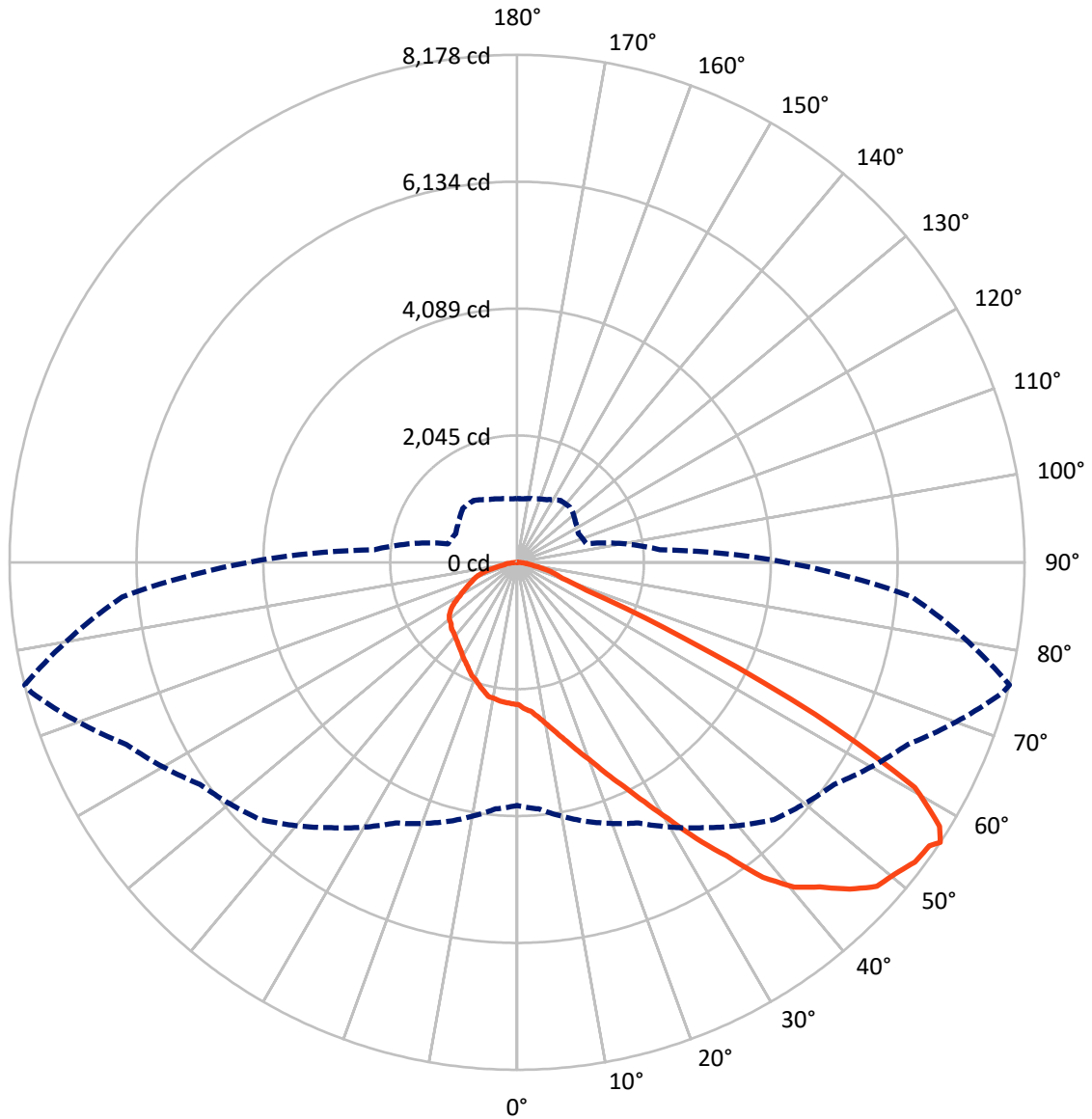
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	3221.7	0.0	3221.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8760.8	0.0	8760.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	11982.6	0.0	11982.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.9
10°-20°	714.2	6.0
20°-30°	1249.1	10.4
30°-40°	1955.7	16.3
40°-50°	2845.0	23.7
50°-60°	3126.9	26.1
60°-70°	1395.7	11.6
70°-80°	403.1	3.4
80°-90°	65.4	0.5
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°	11982.6	100.0
0°-180°	11982.6	100.0

Coefficient of Utilization



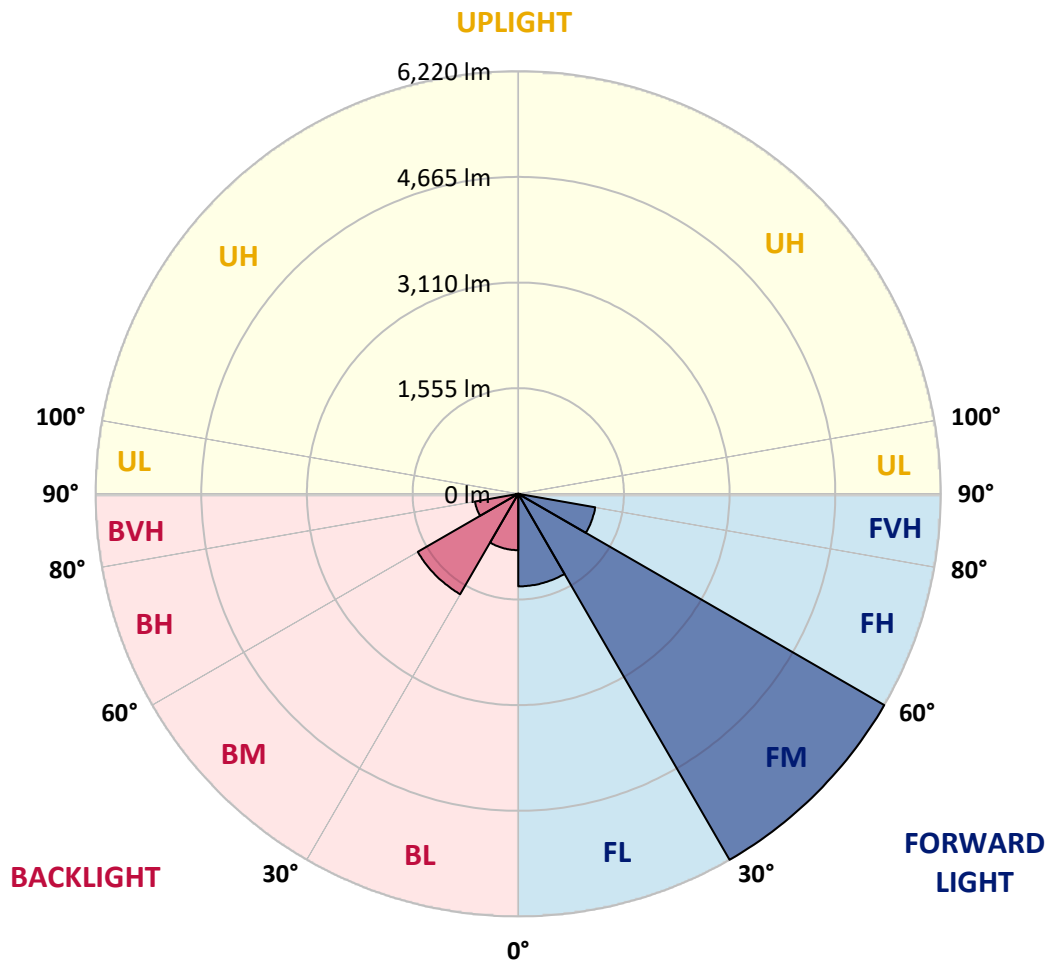
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.7	11.4			
FM (30°-60°)	6220.4	51.9			
FH (60°-80°)	1150.6	9.6			G1/1800
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	829.0	6.9	B2/1000		
BM (30°-60°)	1707.3	14.2	B2/2500		
BH (60°-80°)	648.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	37.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7
2.5°	2525.7	2485.3	2482.2	2471.4	2477.6	2449.6	2420.1	2381.3	2340.8	2365.7	2306.7
5°	2702.8	2648.4	2670.2	2632.9	2637.5	2600.3	2539.7	2494.7	2445.0	2415.4	2373.5
7.5°	2765.0	2769.6	2785.1	2778.9	2747.8	2747.8	2707.4	2628.2	2541.2	2524.2	2454.3
10°	2848.8	2850.3	2833.2	2838.0	2881.4	2861.3	2825.5	2791.4	2679.5	2659.3	2535.0
12.5°	2878.3	2850.3	2878.3	2903.1	2954.4	2982.4	2974.6	2949.8	2830.1	2816.2	2634.4
15°	2882.9	2865.9	2889.2	2945.1	2990.2	3108.2	3167.2	3150.1	2991.7	2993.3	2746.3
17.5°	2861.3	2884.5	2893.9	2942.0	3046.1	3156.4	3327.2	3350.5	3220.0	3199.8	2887.7
20°	2890.8	2873.6	2886.1	2929.5	3067.8	3240.2	3463.9	3617.7	3434.4	3420.4	3033.7
22.5°	3004.1	2980.8	2977.7	3005.6	3105.1	3283.8	3608.4	3884.8	3695.4	3703.1	3215.4
25°	3092.7	3105.1	3094.2	3092.7	3154.8	3348.9	3799.5	4203.3	4049.5	4004.5	3429.8
27.5°	3244.9	3274.4	3252.7	3282.2	3268.2	3446.8	3936.1	4555.9	4431.6	4371.1	3624.0
30°	3456.2	3471.6	3451.5	3451.5	3409.6	3583.5	4060.4	4924.1	4872.8	4790.4	3852.3
32.5°	3734.2	3757.5	3717.1	3693.8	3687.6	3787.0	4284.1	5287.5	5374.5	5304.6	4155.1
35°	4102.3	4088.4	4040.2	4018.5	3934.6	4099.2	4616.5	5705.3	5933.7	5809.5	4521.7
37.5°	4426.9	4405.2	4402.1	4280.9	4301.1	4436.3	4899.2	6022.2	6475.8	6440.1	4908.5
40°	4729.9	4750.1	4782.7	4714.3	4683.3	4832.4	5228.5	6264.6	6896.8	6882.8	5206.7
42.5°	5054.5	5035.9	5093.3	5035.9	4989.3	5200.6	5585.8	6432.3	7266.5	7151.5	5519.0
45°	5525.2	5466.2	5486.3	5491.0	5456.8	5534.5	5733.3	6553.5	7525.9	7513.4	5747.3
47.5°	5918.2	5919.7	5885.6	5859.2	5755.0	5832.8	5898.0	6629.6	7824.1	7803.9	5835.9
50°	6064.2	6044.0	6143.4	6200.9	6207.1	6048.6	6026.9	6671.6	7981.0	7892.4	5924.4
52.5°	5539.2	5557.8	5714.7	6056.5	6253.7	6270.7	6177.6	6758.5	8044.7	8026.0	5995.8
55°	4458.1	4548.1	4806.0	5200.6	5668.1	6182.3	6340.7	6848.6	8078.8	8063.3	6312.7
56°	3919.1	3988.9	4324.4	4633.6	5220.8	5860.7	6238.2	6944.9	8105.2	8178.3	6387.3
57.5°	3154.8	3235.6	3476.4	3827.4	4520.2	5248.7	5955.5	6826.9	8002.7	8030.7	6441.6
60°	1972.7	1980.5	2269.4	2500.9	2988.6	3700.1	4545.0	5939.9	7406.3	7365.9	5786.2
62.5°	1294.0	1295.5	1558.0	1747.5	1969.6	2132.7	2674.8	3939.2	5464.6	5393.2	4119.4
65°	908.7	928.9	1132.4	1385.5	1475.6	1390.3	1373.1	2076.8	3052.3	2949.8	2213.5
67.5°	664.8	666.4	846.6	1118.4	1248.9	1057.8	859.0	1014.3	1208.5	1205.4	1025.2
70°	439.6	458.3	596.4	835.7	984.8	849.7	702.1	725.4	768.9	768.9	762.7
72.5°	256.3	273.4	365.0	529.7	553.0	531.3	556.1	621.3	649.3	647.7	640.0
75°	146.0	153.8	174.0	220.6	274.9	324.6	408.6	470.6	498.6	515.7	495.5
77.5°	85.4	90.1	102.5	125.8	142.9	175.5	222.1	265.6	302.9	298.2	301.3
80°	45.1	45.1	57.4	74.6	99.4	124.3	147.6	172.4	192.6	197.3	201.9
82.5°	26.4	27.9	37.3	54.3	71.5	88.6	113.4	130.4	149.1	150.7	153.8
85°	14.0	15.6	23.3	35.7	48.2	54.3	55.9	52.8	57.4	54.3	62.1
87.5°	4.6	4.6	7.7	6.2	6.2	7.7	9.3	9.3	12.4	12.4	12.4
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°	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7
2.5°	2305.1	2305.1	2278.7	2229.0	2221.2	2201.1	2182.4	2180.9	2166.9	2154.5	2148.3
5°	2348.7	2300.5	2261.6	2216.6	2163.8	2138.9	2111.0	2079.9	2067.5	2079.9	2078.4
7.5°	2398.4	2357.9	2241.4	2157.6	2096.9	2072.1	2041.1	2008.5	2011.6	2011.6	1989.8
10°	2446.5	2392.1	2205.7	2098.5	2010.0	1991.4	1974.2	1986.7	2002.3	2005.4	1991.4
12.5°	2527.3	2404.6	2188.6	2039.5	1983.6	1943.2	1954.1	1988.3	2020.8	2011.6	2022.4
15°	2587.8	2415.4	2111.0	1979.0	1909.1	1927.7	1966.5	1989.8	2044.2	2038.0	2048.8
17.5°	2646.9	2421.7	2034.9	1898.1	1868.6	1919.9	1949.4	2016.2	2033.3	2070.6	2084.6
20°	2768.1	2434.0	1957.2	1848.4	1839.1	1898.1	1949.4	1980.5	2017.8	2050.4	2050.4
22.5°	2830.1	2427.9	1906.0	1783.3	1812.7	1850.0	1896.6	1949.4	1949.4	1980.5	1982.1
25°	2907.8	2403.0	1825.1	1752.1	1773.9	1809.7	1862.5	1843.8	1864.0	1864.0	1888.9
27.5°	2996.4	2350.2	1755.3	1696.2	1739.7	1778.5	1786.3	1773.9	1750.6	1747.5	1738.2
30°	3067.8	2284.9	1704.0	1677.6	1713.3	1735.1	1710.2	1683.8	1643.4	1640.3	1618.6
32.5°	3165.7	2204.2	1640.3	1631.0	1671.4	1672.9	1665.2	1624.8	1565.8	1540.9	1516.1
35°	3330.4	2157.6	1592.2	1606.1	1618.6	1613.9	1599.9	1556.4	1497.4	1486.6	1477.2
37.5°	3451.5	2123.4	1542.5	1559.6	1570.4	1576.6	1534.7	1486.6	1488.1	1466.4	1460.1
40°	3588.2	2101.7	1502.0	1509.8	1511.4	1531.5	1480.3	1457.0	1467.9	1453.9	1463.3
42.5°	3763.7	2107.9	1460.1	1453.9	1483.4	1475.6	1450.8	1419.8	1425.9	1384.0	1390.3
45°	3856.9	2149.8	1435.3	1407.3	1440.0	1438.4	1405.7	1376.2	1339.0	1258.2	1261.3
47.5°	3919.1	2160.7	1376.2	1357.6	1391.8	1412.0	1374.7	1306.3	1253.5	1196.1	1182.1
50°	3982.7	2180.9	1348.3	1309.4	1323.4	1371.6	1325.0	1259.7	1208.5	1157.2	1165.0
52.5°	4038.7	2219.7	1294.0	1236.4	1261.3	1314.1	1289.3	1210.0	1154.1	1112.2	1099.8
55°	4287.2	2306.7	1202.3	1127.7	1186.7	1253.5	1239.5	1143.3	1082.7	1060.9	1057.8
56°	4326.0	2309.8	1154.1	1090.4	1144.8	1233.3	1216.3	1113.7	1059.4	1025.2	1026.8
57.5°	4332.2	2272.6	1085.8	1056.3	1102.9	1203.8	1182.1	1090.4	1015.8	984.8	975.5
60°	3811.8	1773.9	1000.4	981.7	1036.0	1113.7	1106.0	1026.8	942.8	907.1	924.3
62.5°	2598.7	1300.1	933.5	930.5	958.4	1034.5	1014.3	942.8	873.0	849.7	838.8
65°	1513.0	986.3	868.3	855.9	879.2	919.5	933.5	859.0	786.0	770.4	765.8
67.5°	893.1	815.5	784.4	764.2	756.5	781.3	792.2	748.7	675.7	654.0	672.6
70°	747.1	725.4	727.0	692.8	674.1	657.1	647.7	608.9	548.3	520.3	512.6
72.5°	644.6	635.3	629.1	598.0	581.0	542.1	501.7	462.9	417.8	394.5	396.1
75°	492.4	489.3	492.4	476.8	447.3	416.3	379.0	329.3	295.1	265.6	271.8
77.5°	293.6	302.9	307.6	301.3	288.9	261.0	237.7	205.0	172.4	149.1	146.0
80°	201.9	209.7	217.5	209.7	197.3	177.1	152.2	127.4	104.0	91.7	88.6
82.5°	153.8	161.6	166.2	158.4	142.9	121.2	104.0	87.0	68.4	55.9	52.8
85°	55.9	63.7	62.1	74.6	80.7	77.6	66.8	51.3	38.9	27.9	26.4
87.5°	15.6	14.0	15.6	15.6	15.6	14.0	12.4	12.4	12.4	7.7	6.2
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)