

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: P647155

Luminaire Tested: **GALN-SA9C-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50393.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

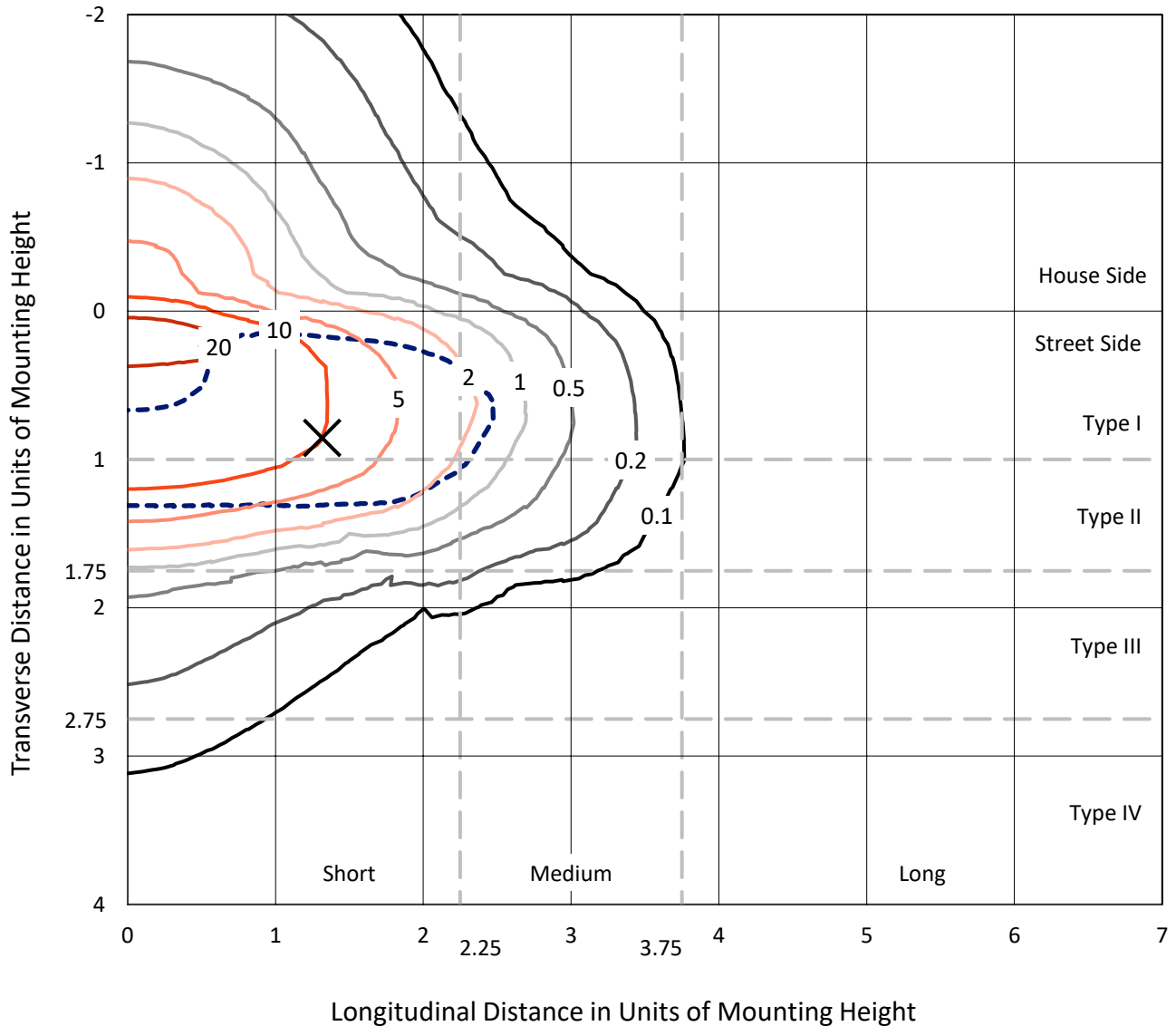
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

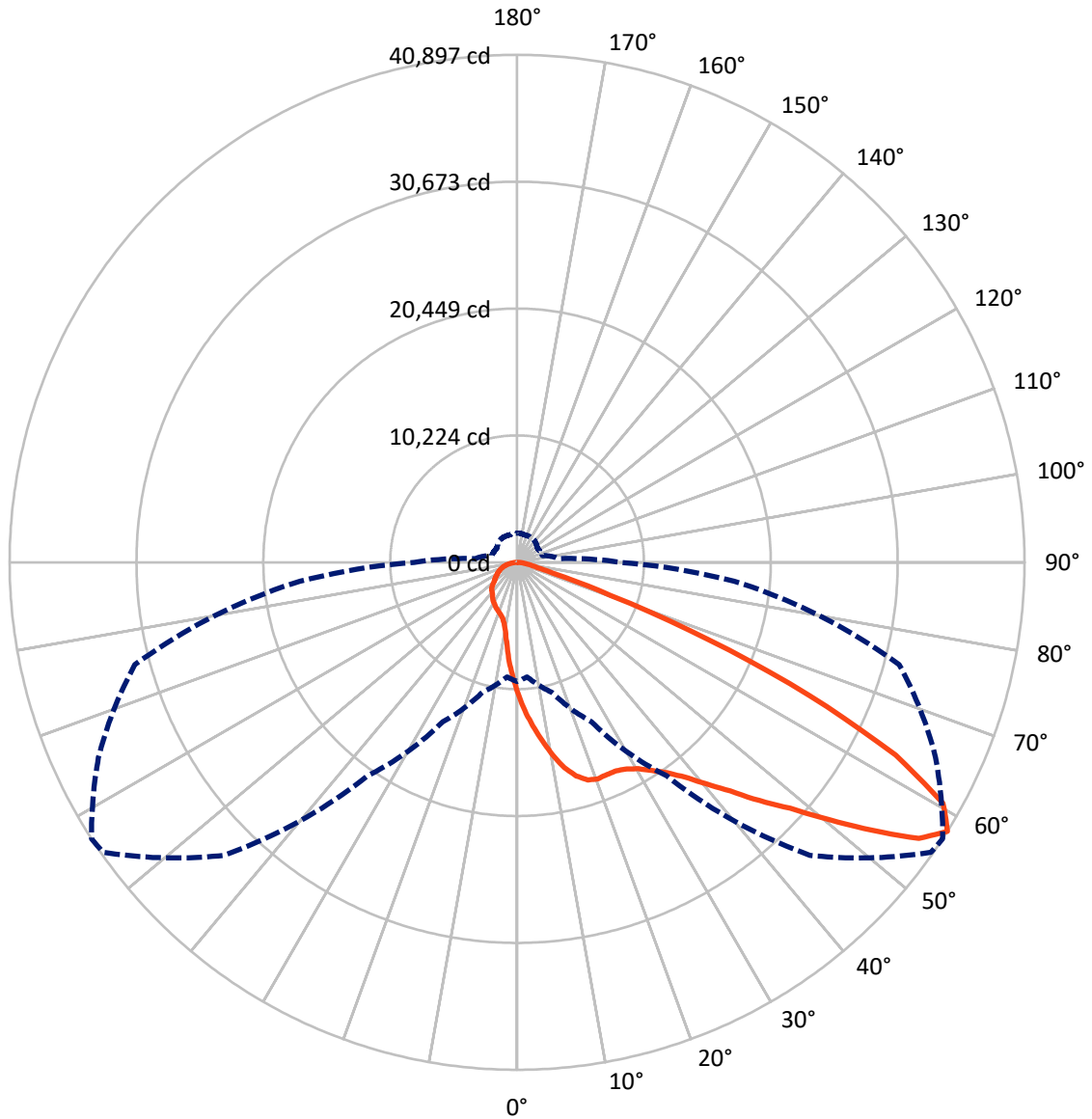
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7663.4	0.0	7663.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	42729.7	0.0	42729.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	50393.1	0.0	50393.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.5	2.0
10°-20°	2998.7	6.0
20°-30°	4979.4	9.9
30°-40°	7500.3	14.9
40°-50°	11261.1	22.3
50°-60°	12622.2	25.0
60°-70°	7387.2	14.7
70°-80°	2185.1	4.3
80°-90°	441.7	0.9
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°	50393.1	100.0
0°-180°	50393.1	100.0

Coefficient of Utilization

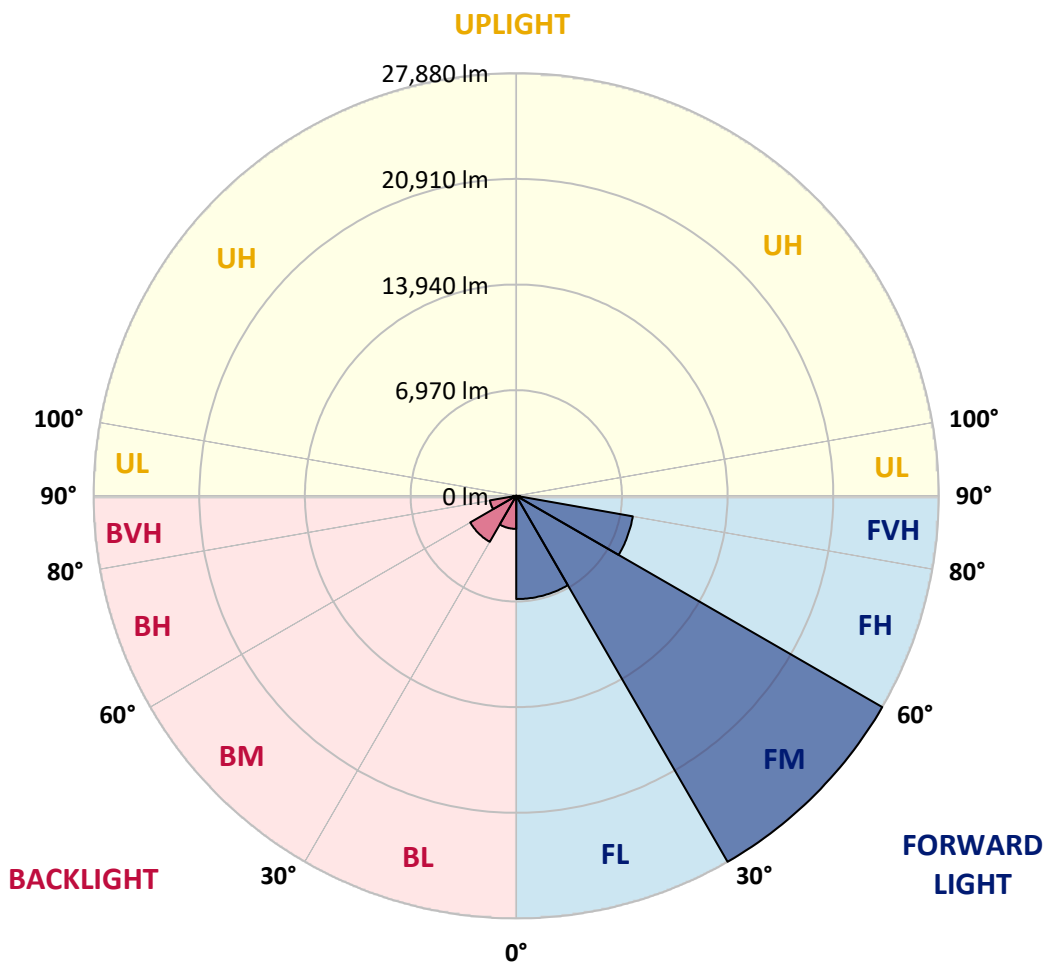


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6812.0	13.5			
FM (30°-60°)	27879.7	55.3			
FH (60°-80°)	7808.9	15.5			G4/12000
FVH (80°-90°)	229.1	0.5			G3/500
BL (0°-30°)	2183.6	4.3	B3/2500		
BM (30°-60°)	3504.0	7.0	B3/5000		
BH (60°-80°)	1763.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	212.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0
2.5°	13155.2	13011.7	12898.6	12799.3	12669.6	12319.3	11969.0	11963.5	11684.9	11254.5	10813.2
5°	15298.5	15105.4	15130.2	14821.3	14512.3	14004.7	13262.8	13224.1	12631.0	11825.6	11006.3
7.5°	16694.3	16697.0	16619.8	16443.2	16109.4	15532.9	14691.6	14501.3	13676.5	12454.5	11227.0
10°	16622.5	16697.0	16826.7	16978.4	17080.4	16796.4	16029.5	15797.7	14724.7	13215.9	11472.5
12.5°	15668.1	15783.9	15968.8	16349.4	16964.6	17433.6	17171.5	16983.9	15938.4	13974.4	11742.8
15°	15072.3	15141.3	15243.3	15499.9	16161.9	17284.6	17963.2	17863.8	17083.2	14832.3	12046.2
17.5°	14890.2	14959.2	14992.3	15149.6	15621.2	16771.5	18274.9	18451.4	18098.3	15621.2	12352.5
20°	15072.3	15105.4	15105.4	15199.2	15568.8	16470.8	18261.0	18616.9	18931.4	16567.3	12639.3
22.5°	15549.5	15563.3	15544.0	15577.1	15852.9	16553.6	18131.5	18572.8	19604.4	17370.1	12862.7
25°	16324.6	16346.7	16219.8	16142.6	16344.0	16917.7	18203.2	18608.6	20131.3	18136.9	13011.7
27.5°	17204.6	17232.2	17077.7	16898.4	16992.2	17367.3	18484.5	18848.6	20525.8	18892.8	13105.5
30°	18283.1	18294.2	18034.9	17819.7	17759.1	18037.7	18964.5	19303.8	21016.8	19783.7	13246.2
32.5°	19386.5	19469.3	19135.5	18832.1	18730.0	18815.6	19673.4	20001.7	21601.6	20741.0	13472.4
35°	20887.2	20900.9	20501.0	20131.3	19794.8	19905.1	20580.9	20818.2	22409.9	21847.1	13792.4
37.5°	22760.2	22887.0	22335.3	21645.7	21232.0	21071.9	21678.8	21938.1	23543.6	23204.3	14275.1
40°	24840.0	24887.0	24415.2	23984.9	23229.1	22765.6	23184.9	23466.4	24942.1	24823.4	14835.0
42.5°	26147.6	26249.6	26285.5	26241.3	25673.1	24895.2	25055.2	25187.6	26597.2	26343.4	15408.8
45°	26588.9	26740.6	27253.7	28340.5	28401.2	27634.3	27261.9	27388.9	28401.2	27877.1	15957.8
47.5°	25857.9	26117.2	27063.4	29292.2	30961.1	31019.0	29896.3	29617.7	30045.3	29148.7	16355.0
50°	23968.3	24023.5	25471.7	28699.1	32161.0	34254.7	33093.4	32574.8	31606.6	30089.4	16628.1
52.5°	21044.4	21107.8	22321.5	25943.5	31421.7	36516.6	36833.9	35907.0	33192.7	30820.4	16807.3
55°	15621.2	15988.1	17323.2	20823.7	27918.5	36304.3	39807.5	39280.6	35109.8	31399.7	17088.7
57.5°	9605.0	9268.4	10851.8	14167.5	20997.5	33385.8	40726.1	40897.1	37220.1	31885.2	17560.4
60°	4419.1	4485.3	5139.1	7307.2	12799.3	26117.2	38359.3	39440.6	38386.9	31868.6	17679.0
62.5°	3045.3	2984.6	2819.2	3208.1	5837.0	16517.7	32401.0	34232.6	36047.7	30878.3	17207.4
65°	2722.6	2661.9	2342.0	2234.4	2681.2	7199.6	23554.6	25866.2	30351.4	28379.1	16032.2
67.5°	2543.3	2460.6	2129.5	1919.9	1914.4	2866.0	13888.9	16672.2	22511.9	23993.2	13891.7
70°	2355.7	2289.6	1961.3	1729.6	1630.3	1801.3	6104.5	7991.3	14617.1	17290.1	10821.5
72.5°	2168.1	2090.9	1795.7	1547.5	1417.9	1348.9	2339.2	3042.6	8258.8	10366.4	6634.1
75°	1895.1	1856.4	1605.5	1401.3	1260.6	1089.6	1484.0	1693.7	3950.2	4761.1	3329.5
77.5°	1657.8	1616.4	1426.2	1224.8	1122.7	885.5	1053.8	1150.3	1666.1	1931.0	1503.4
80°	1213.7	1255.1	1202.7	1081.3	1001.3	695.1	708.9	789.0	990.3	1095.1	918.5
82.5°	769.6	846.8	926.8	833.0	758.6	549.0	491.0	521.3	675.8	717.2	408.3
85°	322.8	328.2	537.9	507.5	433.1	325.5	295.2	311.7	361.4	377.9	190.3
87.5°	124.1	121.4	190.3	176.6	135.1	93.8	93.8	104.8	143.4	132.4	60.7
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°	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0	10587.0
2.5°	10622.9	10427.1	10038.1	9555.3	9202.3	8805.1	8454.7	8203.7	8109.9	8065.8	7983.0
5°	10614.6	10228.4	9422.9	8578.9	7900.2	7205.2	6617.6	6236.9	6203.8	5950.0	5925.2
7.5°	10617.3	10027.0	8744.4	7503.0	6468.6	5756.9	5271.5	5144.5	4992.8	4954.2	4973.5
10°	10625.6	9770.5	8016.1	6438.3	5436.9	4970.8	4788.7	4739.0	4744.6	4761.1	4763.9
12.5°	10636.7	9522.2	7260.3	5630.0	4857.7	4664.6	4645.3	4689.4	4736.3	4772.2	4780.4
15°	10650.4	9238.1	6523.8	4979.0	4568.0	4551.5	4614.9	4689.4	4755.6	4808.0	4816.3
17.5°	10633.9	8907.1	5905.9	4579.1	4408.1	4488.0	4592.8	4686.6	4747.3	4797.0	4802.5
20°	10595.3	8537.4	5310.1	4297.7	4308.8	4438.4	4551.5	4639.7	4706.0	4730.8	4750.1
22.5°	10446.3	8096.1	4791.5	4079.7	4190.1	4369.5	4504.6	4557.0	4482.5	4430.1	4443.9
25°	10192.5	7522.4	4308.8	3903.3	4082.6	4272.9	4410.8	4283.9	4223.2	4201.2	4212.1
27.5°	9875.4	6893.5	3944.6	3718.4	3944.6	4165.3	4126.6	4104.6	4077.0	4041.1	4049.4
30°	9533.3	6278.3	3635.7	3574.9	3795.7	3922.5	3939.1	3975.0	3944.6	3889.5	3911.5
32.5°	9216.1	5699.0	3401.2	3453.6	3690.8	3671.5	3795.7	3837.0	3696.4	3511.5	3519.8
35°	8945.7	5161.1	3224.6	3335.0	3511.5	3519.8	3643.9	3500.5	3348.8	3260.5	3266.0
37.5°	8741.6	4741.8	3108.8	3232.9	3282.6	3387.4	3321.2	3246.7	3227.4	3166.7	3169.5
40°	8620.2	4374.9	3034.3	3152.9	3144.7	3216.4	3004.0	3078.4	3106.0	3086.7	3089.5
42.5°	8498.8	4115.6	2957.1	3042.6	3039.8	2899.1	2852.2	2915.7	2987.5	2995.7	2990.2
45°	8402.3	3914.3	2877.1	2874.3	2929.5	2708.8	2695.0	2733.6	2835.7	2885.4	2882.6
47.5°	8294.7	3746.0	2755.7	2678.5	2695.0	2590.2	2568.2	2584.7	2708.8	2788.8	2810.9
50°	8159.6	3577.8	2604.0	2499.2	2430.2	2479.8	2485.4	2488.1	2612.2	2703.3	2722.6
52.5°	8052.0	3450.8	2430.2	2353.0	2270.2	2380.6	2422.0	2427.5	2501.9	2576.4	2590.2
55°	8115.4	3379.1	2259.2	2204.0	2129.5	2278.5	2358.5	2369.5	2386.1	2441.2	2449.5
57.5°	8305.8	3395.7	2121.2	2049.6	1994.4	2157.1	2292.3	2300.5	2289.6	2355.7	2366.8
60°	8363.7	3387.4	2019.2	1878.5	1845.5	2027.5	2195.8	2212.3	2209.5	2306.1	2325.4
62.5°	8121.0	3282.6	1917.2	1735.0	1713.0	1895.1	2060.5	2126.8	2140.6	2278.5	2303.4
65°	7549.9	3067.4	1782.0	1583.4	1583.4	1754.4	1931.0	2021.9	2060.5	2245.4	2273.0
67.5°	6796.9	2813.6	1644.1	1453.7	1448.2	1619.2	1793.0	1886.8	1947.5	2198.5	2215.0
70°	5641.0	2471.6	1473.1	1313.0	1313.0	1467.5	1624.7	1737.9	1826.1	2110.3	2110.3
72.5°	3864.7	2055.1	1266.1	1153.0	1155.8	1299.2	1459.2	1586.1	1691.0	1933.7	1939.2
75°	2444.0	1605.5	1040.0	982.0	993.1	1128.2	1293.8	1426.2	1635.8	1911.6	1919.9
77.5°	1299.2	1128.2	827.6	813.8	827.6	951.7	1136.5	1318.6	1641.3	1657.8	1630.3
80°	841.3	800.0	653.7	626.2	631.7	766.9	1012.3	1252.3	1318.6	1335.1	1274.4
82.5°	457.9	507.5	463.5	435.8	435.8	598.6	863.4	995.8	946.2	786.1	750.3
85°	195.8	237.2	240.0	209.6	201.4	369.7	579.3	543.4	504.8	482.7	477.2
87.5°	55.2	77.2	77.2	57.9	44.2	102.0	115.9	33.1	0.0	2.7	5.5
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)