

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: P652542

Luminaire Tested: **GALN-SA8B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28826.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

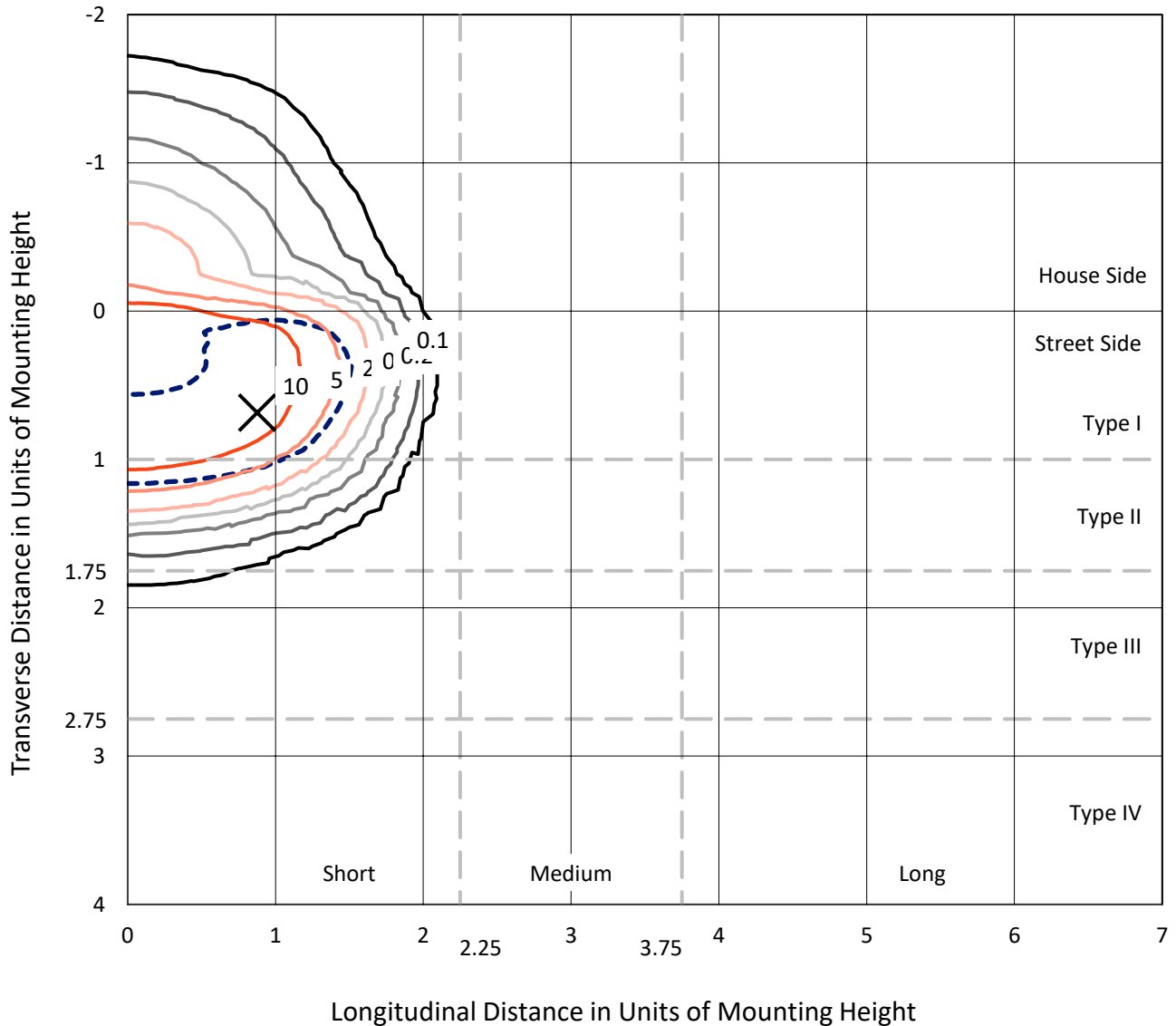
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

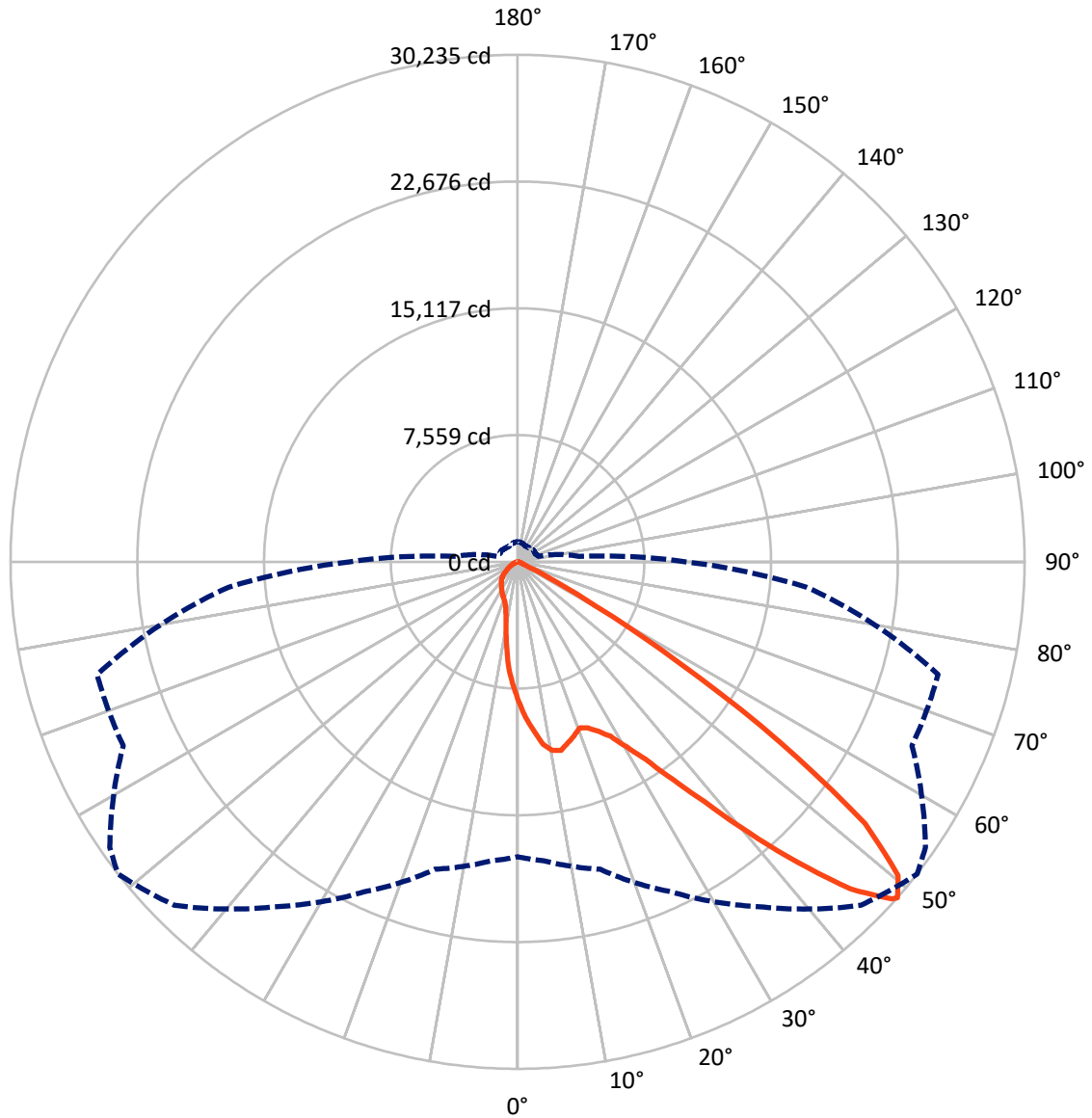
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3509.8	0.0	3509.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25316.3	0.0	25316.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	28826.1	0.0	28826.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.9	2.6
10°-20°	1991.2	6.9
20°-30°	3399.8	11.8
30°-40°	6260.7	21.7
40°-50°	9722.9	33.7
50°-60°	5851.5	20.3
60°-70°	676.8	2.3
70°-80°	131.0	0.5
80°-90°	30.3	0.1
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°	28826.1	100.0
0°-180°	28826.1	100.0

Coefficient of Utilization



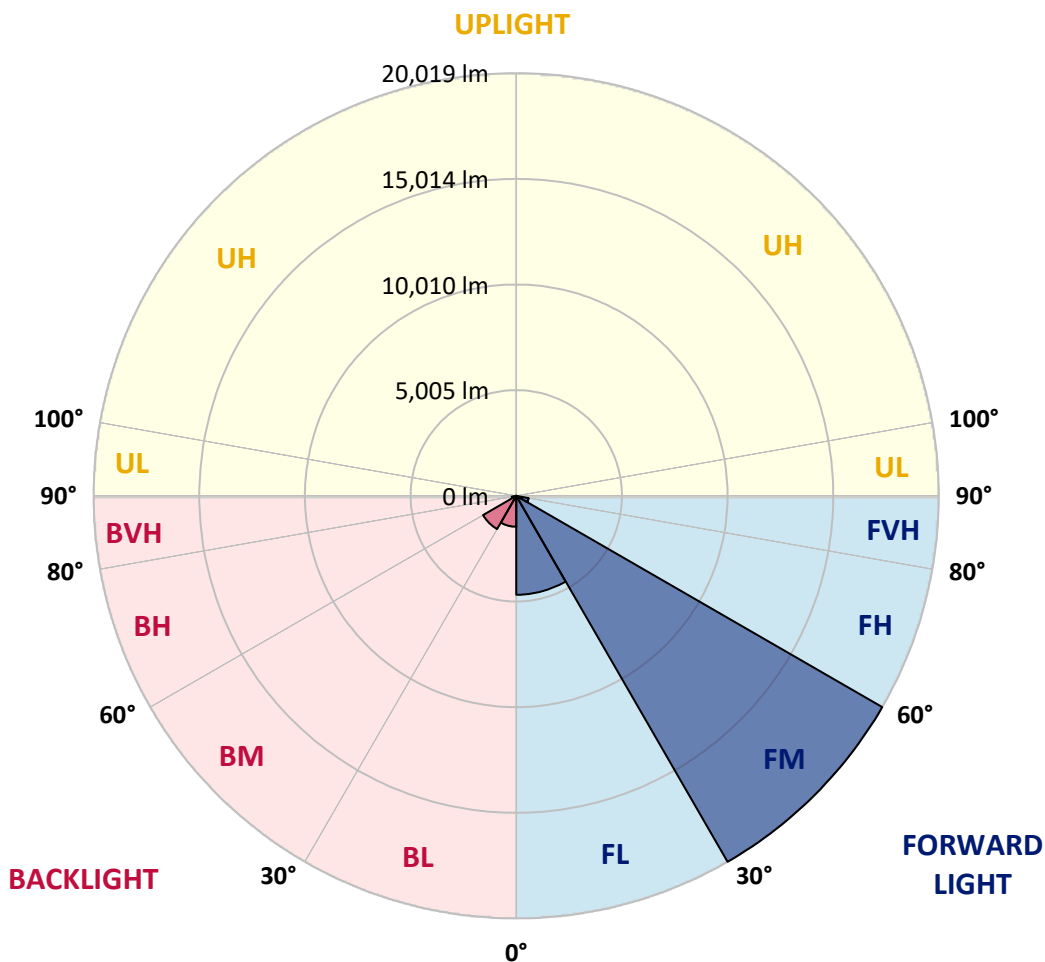
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4686.8	16.3			
FM (30°-60°)	20019.2	69.4			
FH (60°-80°)	596.0	2.1			G0/660
FVH (80°-90°)	14.4	0.0			G1/100
BL (0°-30°)	1466.2	5.1	B3/2500		
BM (30°-60°)	1815.9	6.3	B2/2500		
BH (60°-80°)	211.8	0.7	B1/500		G1/500
BVH (80°-90°)	15.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5
2.5°	10089.4	9858.3	9879.3	9728.0	9639.8	9496.9	9303.6	9265.8	9055.7	8769.9	8480.0
5°	10997.1	10942.4	11013.9	10795.4	10803.8	10568.4	10114.6	10123.0	9639.8	9173.4	8723.7
7.5°	11056.0	10929.9	11001.3	11194.6	11308.1	11266.0	11009.7	10787.0	10328.9	9644.0	8988.4
10°	9900.3	10139.9	10215.5	10534.9	10988.7	11467.7	11438.3	11450.9	11068.5	10173.5	9215.3
12.5°	9206.9	9047.3	9303.6	9496.9	10181.9	11110.5	11535.0	11627.4	11656.8	10686.1	9442.2
15°	8891.8	8891.8	8933.9	8988.4	9484.3	10341.5	11207.2	11476.1	12110.7	11358.5	9799.5
17.5°	9089.3	9080.9	9139.7	9026.3	9211.1	9870.9	10904.7	11211.4	12619.1	12018.2	10081.0
20°	9690.2	9719.6	9681.8	9354.0	9366.6	9862.5	10568.4	11051.7	12963.7	12589.7	10455.0
22.5°	10526.5	10543.3	10328.9	9971.7	9866.7	10110.4	10761.8	11131.6	13241.0	13274.7	10568.4
25°	11492.9	11425.7	11383.7	10879.4	10560.1	10770.2	11198.8	11413.1	13413.4	13863.0	10892.0
27.5°	12833.4	12698.9	12442.6	11993.0	11757.7	11459.3	11766.1	12119.1	13905.0	14686.6	11245.0
30°	14812.6	14695.0	14194.9	13615.0	12997.3	12703.1	12799.9	12993.1	14791.7	15640.5	11711.4
32.5°	17792.0	17544.1	16821.3	15716.1	14875.7	14064.6	14039.5	14245.4	15585.8	16959.9	12266.2
35°	21073.9	20998.3	19935.1	18796.4	17170.1	15917.9	15938.8	16048.1	17107.0	18691.2	12993.1
37.5°	23254.8	23670.9	22994.3	21771.5	20405.8	18615.6	18161.8	18199.6	19195.5	20741.9	14304.2
40°	24939.9	24586.9	24666.8	24381.0	23448.1	22229.5	21225.2	21027.7	21611.8	23011.1	15606.9
42.5°	24204.5	24221.3	24713.0	25389.5	25620.6	25532.4	24507.1	24133.1	23679.3	24868.5	16846.5
45°	22128.6	22561.4	23200.2	24990.3	26561.9	28036.9	27835.2	27213.2	25108.0	26339.2	17560.8
47.5°	18817.3	18800.6	19846.8	22174.9	25666.9	29121.1	30037.2	29600.1	26120.7	26175.4	17413.8
48°	17594.5	17897.1	18977.0	21716.8	25099.6	28961.3	30234.6	29684.1	25948.4	25956.8	17287.8
50°	13005.7	12951.1	14295.8	17657.6	22418.6	27213.2	29402.6	29831.2	25944.2	24851.6	16405.3
52.5°	6870.5	7105.9	8085.0	11102.1	15850.6	22271.5	25935.8	26603.9	25028.2	23044.7	15136.2
55°	2920.5	2639.0	3391.2	5013.2	8917.0	14879.9	19027.5	20515.0	21162.2	20393.2	13241.0
57.5°	1042.2	1138.8	1311.1	1886.8	3748.3	8143.8	11345.8	12501.5	14661.4	14963.9	9022.1
60°	668.2	680.8	735.4	865.6	1407.7	3139.0	5383.0	6303.3	7282.4	7517.7	4210.6
62.5°	516.9	521.1	546.3	567.3	668.2	1218.6	2021.3	2395.3	2487.7	2138.9	1105.2
65°	432.9	437.1	445.4	445.4	474.8	571.5	705.9	777.4	756.4	748.0	626.1
67.5°	331.9	340.4	357.2	357.2	374.0	348.8	390.8	416.0	470.6	571.5	533.7
70°	260.5	264.7	277.4	285.8	285.8	252.1	281.6	306.8	344.6	424.5	420.2
72.5°	201.7	210.1	218.5	218.5	205.9	172.3	201.7	222.7	247.9	294.2	285.8
75°	155.5	155.5	159.7	130.3	100.8	88.2	121.9	147.1	184.9	193.3	159.7
77.5°	42.0	46.3	42.0	37.8	42.0	63.0	79.8	92.4	117.7	117.7	105.0
80°	0.0	4.2	12.6	25.2	42.0	58.9	71.4	79.8	92.4	100.8	96.6
82.5°	0.0	4.2	12.6	25.2	37.8	46.3	63.0	67.2	75.6	88.2	88.2
85°	0.0	4.2	8.4	16.8	25.2	29.4	29.4	25.2	25.2	21.0	16.8
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	12.6	12.6	12.6	12.6	12.6
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°	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5	8324.5
2.5°	8366.5	8236.2	8038.8	7727.8	7429.5	7236.1	7051.3	6845.3	6731.9	6723.5	6660.5
5°	8467.4	8173.3	7702.6	7168.9	6597.4	6105.7	5609.9	5286.4	4996.4	4836.7	4807.3
7.5°	8522.0	8139.6	7379.0	6483.9	5509.1	4706.4	4151.8	3744.1	3584.4	3466.8	3462.6
10°	8635.5	8080.7	6895.8	5576.3	4370.3	3559.3	3176.9	2991.9	2903.7	2870.1	2819.6
12.5°	8719.5	7971.5	6399.9	4643.4	3454.2	2949.9	2781.9	2739.8	2744.0	2760.8	2739.8
15°	8837.1	7874.9	5731.8	3811.4	2899.5	2655.8	2655.8	2664.2	2723.0	2731.4	2727.2
17.5°	8828.7	7685.8	5042.6	3139.0	2563.3	2529.7	2542.3	2622.2	2660.0	2672.6	2643.2
20°	8929.7	7509.3	4332.4	2681.0	2374.2	2424.7	2508.7	2529.7	2575.9	2584.3	2550.8
22.5°	8900.2	7068.0	3672.7	2319.6	2231.3	2328.0	2412.1	2437.2	2424.7	2399.5	2395.3
25°	8845.6	6689.8	3067.5	2080.0	2126.3	2231.3	2311.2	2265.0	2239.8	2244.0	2248.2
27.5°	8748.9	6210.8	2567.5	1912.0	1983.4	2138.9	2134.7	2117.9	2143.1	2122.1	2143.1
30°	8732.1	5731.8	2155.7	1760.7	1878.4	1991.8	2000.2	2029.7	2059.1	2021.3	2059.1
32.5°	8757.3	5206.5	1861.6	1668.3	1815.3	1819.5	1912.0	1941.4	1920.4	1836.3	1844.7
35°	8950.6	4803.1	1647.3	1617.8	1714.5	1718.7	1807.0	1769.1	1676.7	1626.2	1655.7
37.5°	9358.2	4466.9	1546.4	1571.6	1580.0	1634.7	1638.9	1563.2	1571.6	1567.4	1584.2
40°	9879.3	4210.6	1474.9	1529.6	1521.2	1559.0	1407.7	1449.7	1487.6	1500.2	1508.6
42.5°	10236.5	4025.7	1428.8	1462.3	1445.5	1378.3	1294.3	1336.3	1365.7	1412.0	1420.4
45°	10396.2	3878.6	1374.1	1344.7	1344.7	1222.8	1189.2	1197.6	1264.9	1315.2	1306.9
47.5°	10135.6	3735.7	1277.5	1189.2	1218.6	1117.8	1079.9	1079.9	1151.4	1214.4	1201.8
48°	10034.8	3676.9	1281.7	1155.6	1176.6	1101.0	1063.1	1054.8	1134.6	1193.4	1193.4
50°	9534.8	3458.4	1172.4	1063.1	1021.1	1012.7	987.5	995.9	1046.4	1101.0	1101.0
52.5°	8559.9	2987.7	991.7	911.9	836.2	886.7	899.3	882.5	907.7	958.1	953.9
55°	7143.7	2294.4	794.2	756.4	697.5	752.2	777.4	756.4	731.2	769.0	769.0
57.5°	4576.1	1235.4	634.5	642.9	584.1	638.7	659.8	609.3	563.0	592.5	588.3
60°	2063.2	739.6	521.1	508.5	470.6	533.7	567.3	508.5	445.4	466.4	487.4
62.5°	773.2	525.3	395.0	386.6	378.2	437.1	453.8	407.6	344.6	357.2	361.4
65°	567.3	462.2	315.1	285.8	302.6	344.6	336.1	290.0	247.9	247.9	256.3
67.5°	483.2	403.4	256.3	222.7	222.7	226.9	210.1	184.9	172.3	180.7	189.1
70°	378.2	319.3	201.7	172.3	155.5	138.7	121.9	117.7	105.0	117.7	113.5
72.5°	243.7	214.3	155.5	130.3	117.7	96.6	79.8	75.6	63.0	58.9	58.9
75°	130.3	130.3	121.9	105.0	92.4	75.6	63.0	50.5	33.6	25.2	25.2
77.5°	92.4	100.8	109.2	100.8	84.0	63.0	50.5	33.6	16.8	8.4	8.4
80°	88.2	100.8	109.2	96.6	84.0	63.0	46.3	25.2	12.6	4.2	4.2
82.5°	79.8	92.4	100.8	88.2	75.6	54.7	42.0	25.2	12.6	4.2	4.2
85°	16.8	21.0	25.2	25.2	29.4	37.8	29.4	21.0	8.4	4.2	4.2
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	8.4	8.4	4.2	4.2	4.2
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)