

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: P531028

Luminaire Tested: **GALN-SA6B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27439 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

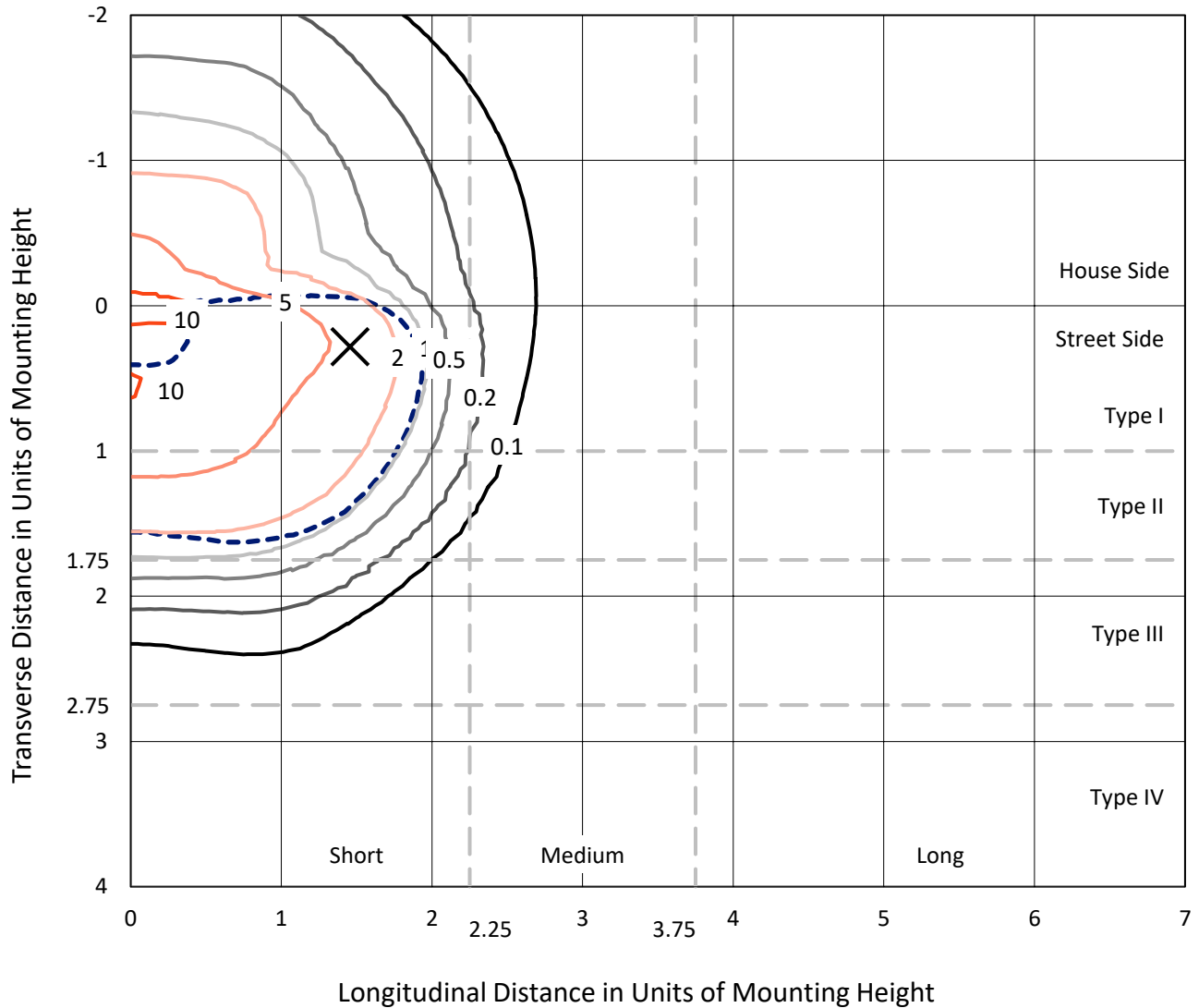
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

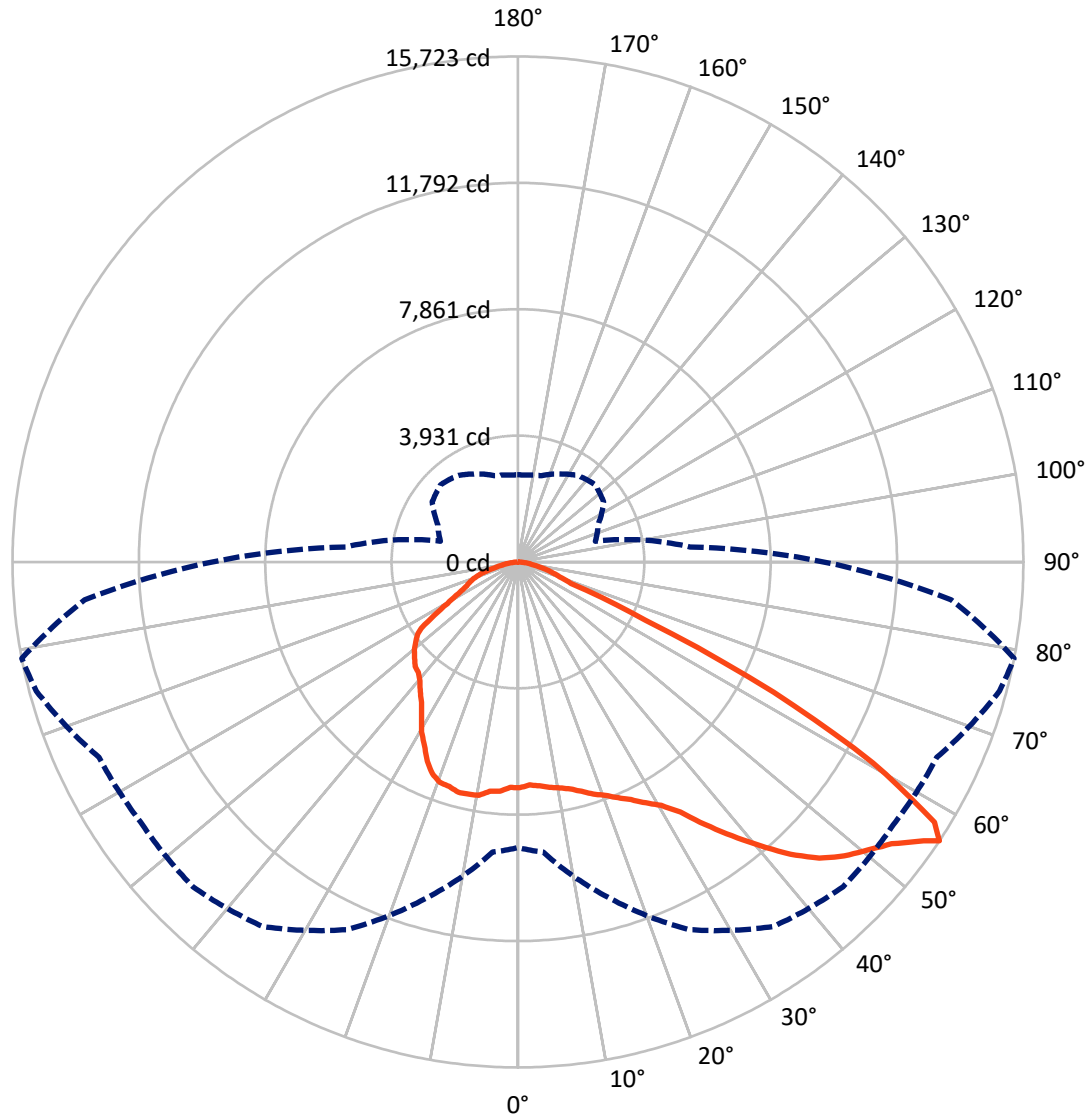
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8103.3	0.0	8103.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	19335.7	0.0	19335.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	27439.0	0.0	27439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.3	2.3
10°-20°	1746.9	6.4
20°-30°	2988.5	10.9
30°-40°	4580.3	16.7
40°-50°	6190.2	22.6
50°-60°	7109.7	25.9
60°-70°	3240.8	11.8
70°-80°	799.0	2.9
80°-90°	145.2	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°	27439.0	100.0
0°-180°	27439.0	100.0

**Coefficient of Utilization**



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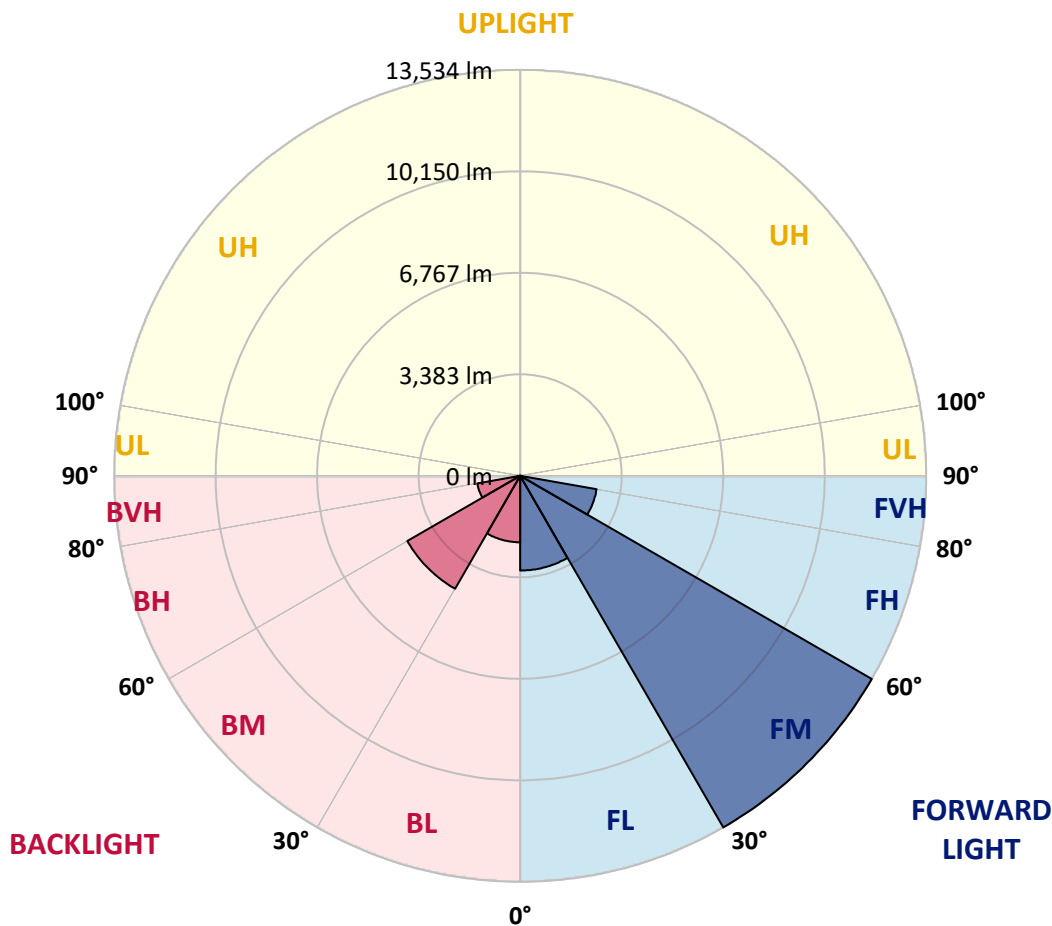
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.1	11.5			
FM (30°-60°)	13533.7	49.3			
FH (60°-80°)	2586.9	9.4			G2/5000
FVH (80°-90°)	58.0	0.2			G1/100
BL (0°-30°)	2216.6	8.1	B3/2500		
BM (30°-60°)	4346.5	15.8	B3/5000		
BH (60°-80°)	1453.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6
2.5°	6678.8	6661.7	6702.7	6733.4	6771.0	6818.9	6842.8	6856.5	6976.1	6945.4	7037.6
5°	6535.2	6490.8	6521.5	6545.5	6610.4	6668.5	6733.4	6836.0	6945.4	6993.2	7106.0
7.5°	6408.7	6384.8	6378.0	6395.1	6483.9	6559.1	6671.9	6822.3	7000.0	7078.7	7143.6
10°	6200.2	6166.1	6217.3	6330.1	6354.0	6511.3	6641.2	6856.5	7010.3	7147.0	7338.4
12.5°	6107.9	6073.8	6084.0	6149.0	6316.4	6466.8	6620.6	6863.3	7188.0	7242.7	7499.1
15°	6254.9	6220.7	6231.0	6213.9	6374.6	6453.2	6695.8	7000.0	7311.1	7403.4	7676.8
17.5°	6589.9	6593.3	6548.9	6511.3	6473.7	6641.2	6808.6	7082.1	7358.9	7591.4	7796.4
20°	7229.1	7116.3	7027.4	6815.5	6757.4	6829.1	7041.1	7304.2	7553.8	7745.2	7977.6
22.5°	7721.2	7731.5	7605.0	7256.4	7129.9	7160.7	7341.8	7557.2	7830.6	7967.3	8233.9
25°	8435.6	8363.8	8227.1	7950.2	7666.6	7690.5	7823.8	8018.6	8093.8	8189.5	8480.0
27.5°	9088.4	9108.9	8838.9	8579.2	8227.1	8158.7	8398.0	8432.2	8305.7	8486.9	8586.0
30°	9751.5	9734.4	9556.7	9252.5	8907.3	8921.0	9026.9	8859.4	8685.1	8784.2	8852.6
32.5°	10438.5	10243.7	10236.9	9963.4	9700.3	9573.8	9443.9	9525.9	9255.9	9276.4	9211.5
35°	10988.8	11016.2	10859.0	10664.1	10534.2	10312.1	9956.6	10103.6	10052.3	10028.4	9748.1
37.5°	11388.7	11282.8	11361.4	11296.5	11173.4	10896.6	10527.4	10667.5	10691.5	10807.7	10483.0
40°	11716.9	11672.4	11880.9	11915.1	11829.7	11231.5	10568.4	10985.4	11344.3	11597.2	11211.0
42.5°	11874.1	11969.8	12188.6	12451.7	12260.3	11621.2	10780.3	11228.1	12027.9	12427.8	11901.4
45°	12086.0	11963.0	12287.7	12769.6	12773.0	11949.3	10985.4	11556.2	12561.1	13142.2	12373.1
47.5°	11870.7	11932.2	12267.2	12879.0	13036.2	12294.5	11539.1	12021.1	13149.0	13665.1	12810.6
50°	11388.7	11511.8	12123.6	12759.4	13234.5	12660.2	12174.9	12523.5	13692.5	14085.5	12882.4
52.5°	10886.3	10954.7	11911.7	12851.6	13323.3	13131.9	13026.0	13217.4	14355.6	14560.6	12971.3
55°	9519.1	9843.8	11211.0	12810.6	13757.4	13983.0	13901.0	14181.2	15107.5	15312.6	13456.6
56°	8886.8	9057.7	10790.6	12619.2	13842.9	14294.0	14253.0	14379.5	15507.4	15722.8	13531.8
57.5°	7717.8	7731.5	9201.2	11771.6	13521.6	14386.3	14345.3	14444.4	15428.8	15281.8	12872.2
60°	4829.6	5041.5	6261.8	9054.3	11498.1	13347.3	13579.7	12783.3	13008.9	12697.8	10014.7
62.5°	2502.0	2471.2	3281.3	5294.5	7632.4	9556.7	9772.0	9734.4	9385.8	8931.2	6542.0
65°	1247.6	1254.4	1715.8	2621.6	3910.2	5003.9	5605.5	5670.4	4744.2	4364.8	3103.5
67.5°	905.8	939.9	1233.9	1603.0	1842.3	2061.0	2525.9	2478.0	1876.5	1784.2	1654.3
70°	704.1	734.9	1001.5	1223.6	1110.8	1110.8	1210.0	1251.0	1336.4	1374.0	1418.5
72.5°	512.7	536.6	765.6	844.2	728.0	782.7	905.8	1001.5	1090.3	1104.0	1155.3
75°	352.1	372.6	502.4	464.8	437.5	540.0	663.1	752.0	816.9	851.1	881.8
77.5°	229.0	235.8	287.1	242.7	280.3	348.6	430.7	505.9	570.8	598.1	605.0
80°	102.5	112.8	123.0	153.8	194.8	249.5	307.6	369.1	410.2	420.4	440.9
82.5°	58.1	58.1	75.2	109.4	143.6	181.2	222.2	266.6	314.5	324.7	321.3
85°	30.8	30.8	44.4	64.9	88.9	106.0	102.5	106.0	112.8	129.9	126.5
87.5°	10.3	10.3	13.7	13.7	17.1	20.5	17.1	23.9	30.8	30.8	30.8
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°	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6	7020.6
2.5°	7010.3	7041.1	7000.0	7088.9	7088.9	7071.8	6986.4	7013.7	7034.2	7034.2	7051.3
5°	7143.6	7133.3	7160.7	7054.7	6989.8	6965.9	6825.7	6757.4	6699.3	6695.8	6644.6
7.5°	7218.8	7191.5	7181.2	7102.6	6815.5	6641.2	6340.4	6166.1	6128.5	5995.2	6046.4
10°	7338.4	7389.7	7338.4	6911.2	6511.3	6111.4	5817.4	5547.4	5441.4	5356.0	5304.7
12.5°	7584.5	7560.6	7263.2	6685.6	6125.0	5649.9	5212.4	4928.7	4822.8	4747.6	4740.8
15°	7793.0	7673.4	7218.8	6330.1	5523.5	5017.6	4658.7	4457.1	4409.2	4416.0	4446.8
17.5°	7864.8	7782.8	6986.4	5961.0	5075.7	4481.0	4313.5	4282.7	4327.2	4378.4	4392.1
20°	7977.6	7847.7	6890.7	5458.5	4522.0	4146.0	4135.8	4245.1	4327.2	4402.4	4412.6
22.5°	8213.4	7885.3	6579.6	4983.4	4142.6	4046.9	4146.0	4238.3	4364.8	4426.3	4371.6
25°	8281.8	7803.3	6142.1	4412.6	3903.3	3985.4	4091.3	4217.8	4306.7	4340.8	4364.8
27.5°	8339.9	7676.8	5550.8	4033.2	3828.1	3982.0	4091.3	4197.3	4245.1	4275.9	4303.3
30°	8504.0	7639.2	5038.1	3780.3	3780.3	3913.6	4053.7	4081.1	4146.0	4183.6	4231.5
32.5°	8586.0	7379.4	4511.7	3619.7	3732.4	3947.8	3958.0	4009.3	4012.7	4043.5	3992.2
35°	8801.3	7194.9	4023.0	3503.4	3753.0	3913.6	3964.9	3934.1	3766.6	3684.6	3701.7
37.5°	8958.6	7102.6	3670.9	3489.8	3756.4	3951.2	3978.5	3746.1	3571.8	3435.1	3469.3
40°	9382.4	6873.6	3404.3	3465.8	3787.1	3992.2	3917.0	3664.1	3349.6	3209.5	3185.6
42.5°	9707.1	6709.5	3236.8	3438.5	3811.1	4050.3	3886.3	3500.0	3178.7	3048.8	3083.0
45°	10083.1	6671.9	3148.0	3445.3	3852.1	4081.1	3848.7	3373.6	3031.8	2980.5	2970.2
47.5°	10216.4	6401.9	3052.3	3387.2	3841.8	4070.8	3722.2	3277.9	2977.1	2983.9	3011.3
50°	9994.2	6125.0	2980.5	3267.6	3773.5	3978.5	3523.9	3151.4	2946.3	3031.8	3079.6
52.5°	9710.5	5841.3	2833.5	3107.0	3633.3	3835.0	3431.7	3144.6	2915.5	2888.2	2898.5
55°	9796.0	5608.9	2628.4	2888.2	3407.7	3568.4	3329.1	3079.6	2840.4	2737.8	2772.0
56°	9519.1	5369.7	2495.1	2751.5	3253.9	3397.5	3277.9	3021.5	2778.8	2710.5	2710.5
57.5°	8736.4	4566.4	2320.8	2532.7	2929.2	3100.1	3178.7	2987.3	2710.5	2590.8	2594.3
60°	6442.9	3247.1	2081.6	2231.9	2426.8	2563.5	2929.2	2891.6	2539.6	2457.5	2426.8
62.5°	3971.7	2372.1	1910.7	1968.8	2067.9	2180.7	2556.7	2618.2	2358.4	2269.5	2249.0
65°	2225.1	1815.0	1780.8	1804.7	1852.6	1910.7	2122.6	2259.3	2081.6	1944.8	1938.0
67.5°	1627.0	1623.5	1650.9	1671.4	1691.9	1691.9	1743.2	1797.9	1773.9	1664.6	1654.3
70°	1445.8	1456.1	1476.6	1480.0	1486.8	1462.9	1421.9	1404.8	1432.1	1363.8	1350.1
72.5°	1192.9	1227.1	1251.0	1254.4	1216.8	1186.0	1131.4	1073.2	1052.7	1039.1	1035.7
75°	916.0	939.9	950.2	946.8	933.1	888.7	823.7	765.6	728.0	687.0	707.5
77.5°	618.7	652.8	669.9	669.9	649.4	581.1	550.3	505.9	468.3	423.8	430.7
80°	434.1	458.0	485.4	481.9	447.8	413.6	369.1	328.1	297.4	263.2	259.8
82.5°	324.7	338.4	352.1	345.2	321.3	287.1	256.3	218.8	184.6	160.6	160.6
85°	116.2	126.5	153.8	160.6	174.3	174.3	147.0	123.0	99.1	82.0	82.0
87.5°	34.2	34.2	37.6	37.6	34.2	37.6	30.8	34.2	37.6	23.9	23.9
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)