

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: P459523

Luminaire Tested: **GALN-SA9C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60757 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

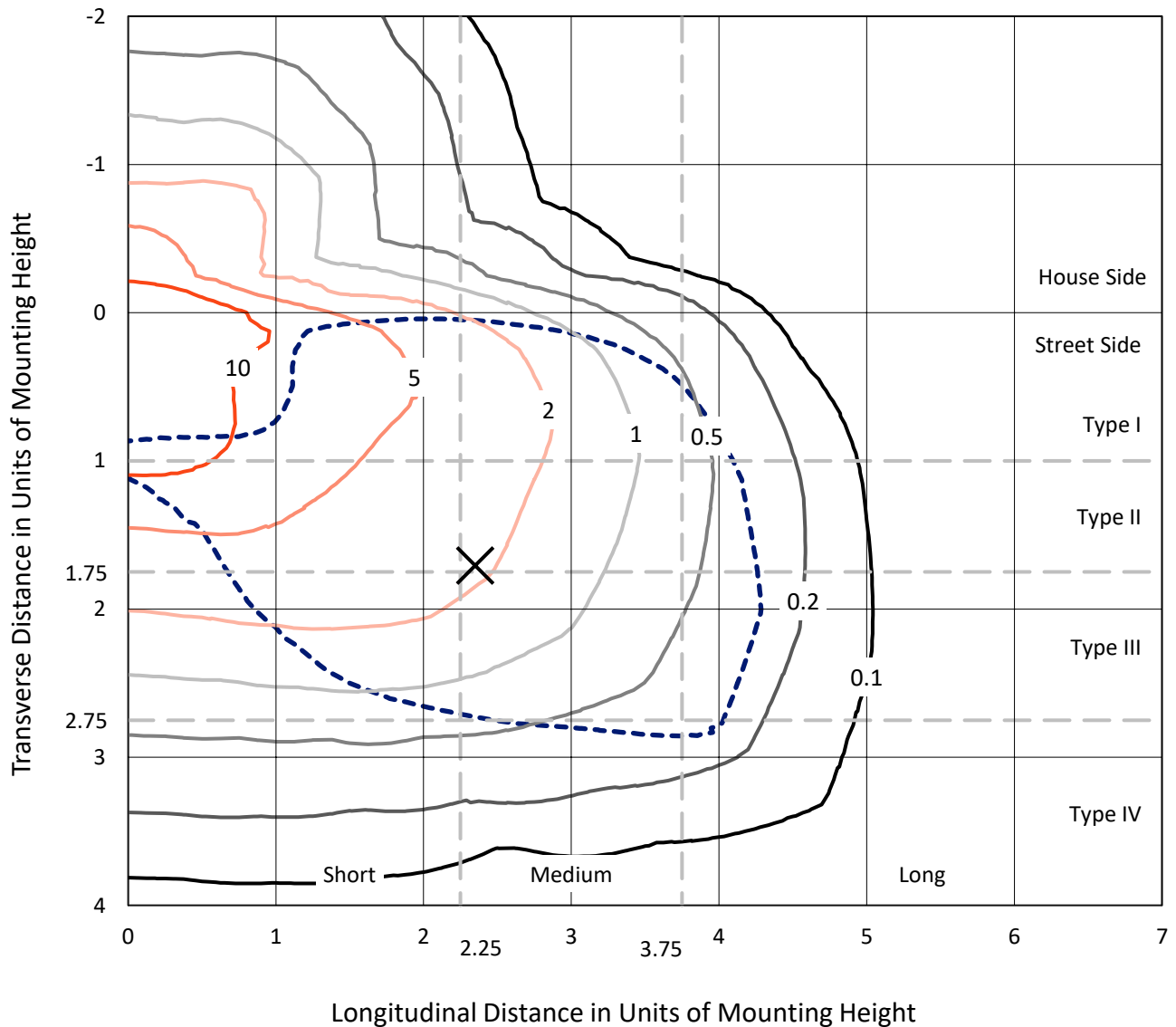
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

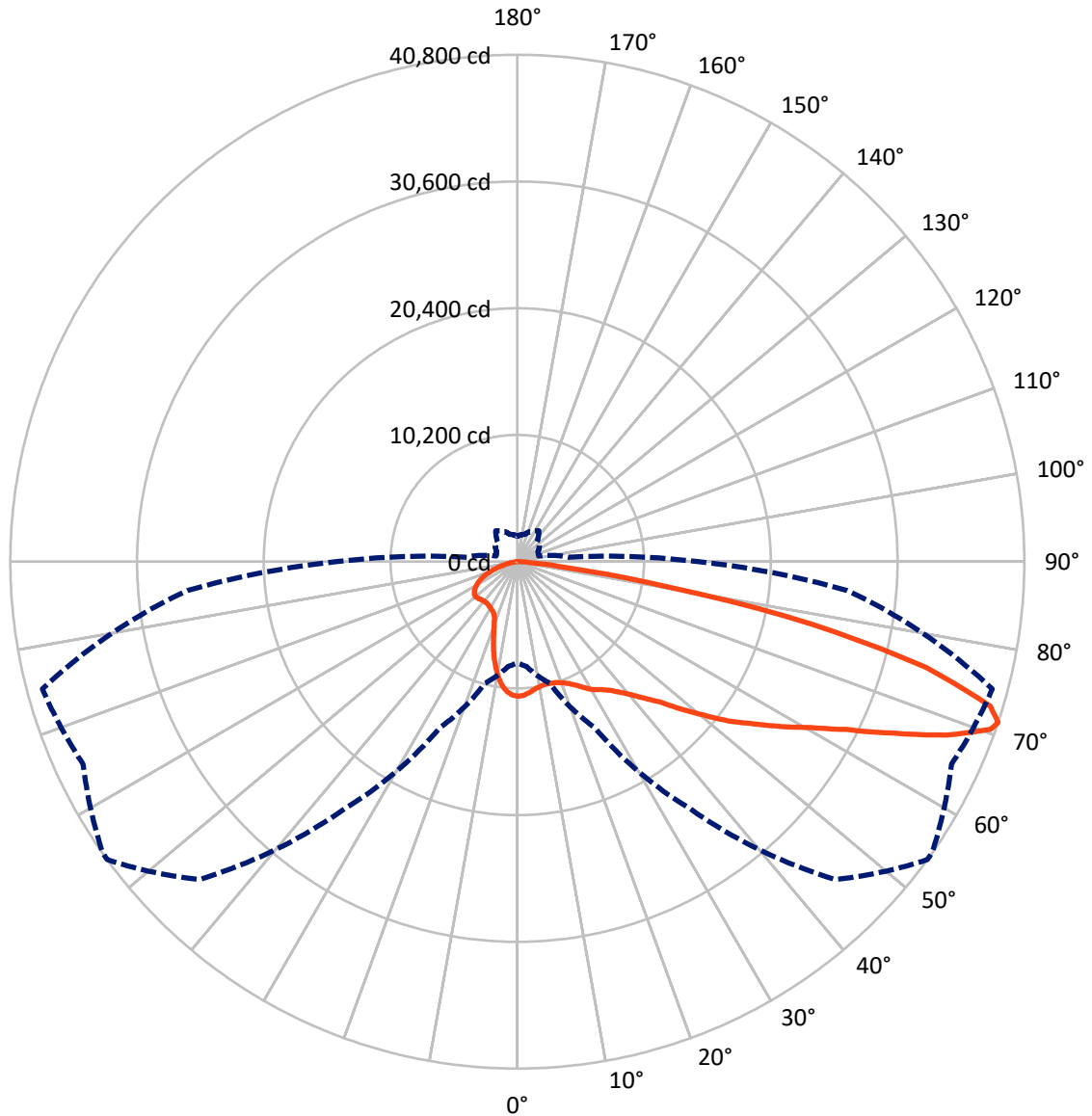
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10969.3	0.0	10969.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49787.7	0.0	49787.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	60757.0	0.0	60757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.0	1.6
10°-20°	2550.7	4.2
20°-30°	4247.1	7.0
30°-40°	6280.0	10.3
40°-50°	8845.6	14.6
50°-60°	11844.7	19.5
60°-70°	14929.3	24.6
70°-80°	10196.7	16.8
80°-90°	896.7	1.5
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°	60757.0	100.0
0°-180°	60757.0	100.0

Coefficient of Utilization



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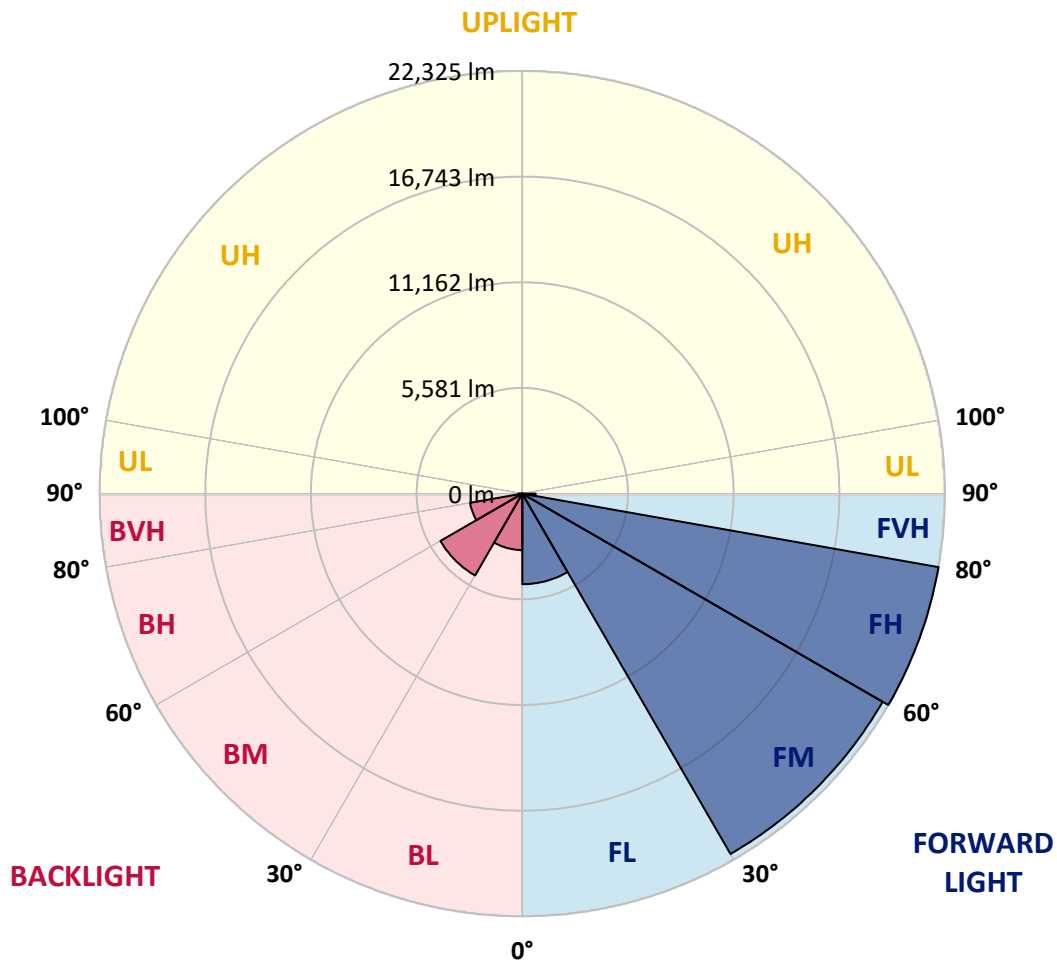
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4782.6	7.9			
FM	(30°-60°)	21979.7	36.2			
FH	(60°-80°)	22324.5	36.7			G5
FVH	(80°-90°)	700.9	1.2			G4/750
BL	(0°-30°)	2981.2	4.9	B4/5000		
BM	(30°-60°)	4990.7	8.2	B3/5000		
BH	(60°-80°)	2801.5	4.6	B4/5000		G4/5000
BVH	(80°-90°)	195.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9
2.5°	10472.4	10521.6	10534.7	10567.6	10636.5	10692.3	10748.1	10741.5	10820.3	10853.1	10882.6
5°	10006.4	10019.5	10068.7	10134.4	10255.8	10410.0	10561.0	10564.3	10757.9	10912.1	10987.6
7.5°	9665.0	9707.7	9740.5	9809.4	9937.4	10104.8	10344.4	10364.1	10708.7	11013.9	11174.7
10°	9441.9	9491.1	9527.2	9612.5	9740.5	9927.6	10186.9	10223.0	10672.6	11174.7	11456.9
12.5°	9238.4	9287.6	9320.5	9432.0	9599.4	9829.1	10121.2	10163.9	10685.7	11361.8	11765.4
15°	9363.1	9402.5	9389.4	9422.2	9533.8	9796.3	10147.5	10190.1	10734.9	11542.3	12070.6
17.5°	9917.7	9950.6	9842.3	9717.6	9665.0	9858.7	10229.5	10275.5	10833.4	11729.3	12382.4
20°	10734.9	10823.5	10587.2	10308.3	10055.6	10081.8	10400.2	10449.4	10971.2	11916.4	12700.8
22.5°	11798.2	11863.9	11575.1	11115.6	10649.6	10410.0	10656.2	10685.7	11178.0	12159.3	13048.6
25°	13048.6	13088.0	12687.6	12096.9	11424.1	10971.2	11007.3	11059.8	11519.3	12434.9	13357.1
27.5°	14262.9	14387.6	13924.9	13202.9	12316.8	11562.0	11489.8	11522.6	11890.1	12589.2	13570.4
30°	15703.6	15693.8	15204.8	14367.9	13232.4	12205.2	11945.9	11939.4	12090.3	12664.7	13724.7
32.5°	16852.3	16986.9	16507.7	15595.3	14279.3	12871.4	12261.0	12247.9	12244.6	12795.9	13954.4
35°	18158.5	18178.2	17738.4	16819.5	15411.6	13708.3	12700.8	12635.1	12559.6	13078.2	14266.2
37.5°	19326.8	19418.7	19015.0	17984.5	16524.1	14578.0	13304.6	13262.0	13032.2	13567.2	14765.0
40°	20239.2	20308.1	20065.2	19084.0	17620.2	15516.6	14072.6	13993.8	13714.8	14367.9	15431.3
42.5°	20537.8	20678.9	20774.1	20291.7	18880.5	16629.1	15017.7	14919.3	14706.0	15582.2	16199.2
45°	20560.8	20784.0	21286.1	21309.0	20147.3	17961.6	16120.4	16051.5	16035.1	17137.8	17278.9
47.5°	20386.8	20613.3	21456.7	21912.9	21276.2	19307.1	17712.1	17603.8	17613.7	19061.0	18489.9
50°	19966.8	20235.9	21259.8	22300.2	22159.0	20705.2	19392.4	19356.3	19559.8	21256.5	19746.9
52.5°	19175.8	19500.7	21056.3	22543.0	22815.4	21909.6	21302.5	21200.7	21716.0	23639.2	21122.0
55°	16986.9	17475.8	20311.4	22677.6	23439.0	23061.6	23022.2	23206.0	23888.6	26238.4	22634.9
57.5°	15844.8	16212.3	18693.4	22700.6	24226.6	24400.5	25030.7	25076.6	26271.2	28998.4	24344.8
60°	15221.2	15546.1	17807.3	22549.6	25326.0	26057.9	27085.1	27249.2	28598.0	31988.2	26117.0
62.5°	14676.4	14955.4	17275.7	22027.8	26566.6	28516.0	29746.7	29825.4	31239.9	35289.7	27866.2
65°	13393.2	13711.6	16205.8	21506.0	27636.5	31587.8	33278.0	33186.1	34052.5	38138.4	28962.3
67.5°	11663.7	12067.4	14207.1	19704.2	28164.8	34945.1	37255.6	37140.7	36828.9	40005.7	29277.4
70°	9455.0	9671.6	11650.6	16589.7	26054.6	36707.5	40396.3	40274.9	38548.6	40251.9	27787.4
71°	8135.7	8473.7	10144.2	14735.5	24298.8	36169.3	40800.0	40767.1	38551.9	39572.5	26665.0
72.5°	6350.4	6557.1	8034.0	11417.6	20652.7	33110.6	39802.3	39927.0	37715.0	37685.5	24351.3
75°	4017.0	4108.9	5040.9	6721.2	11332.2	23448.8	33977.0	34315.0	33488.0	30846.1	18109.2
77.5°	2333.4	2451.5	3019.3	3961.2	4896.5	12727.0	24311.9	24679.5	23268.3	16983.6	7413.7
80°	1358.7	1490.0	1988.8	2300.6	2248.1	4722.6	12379.1	13006.0	10075.3	4289.4	2080.7
82.5°	754.8	843.4	1398.1	1401.3	1197.9	1542.5	3895.6	4076.1	2874.9	1729.5	850.0
85°	548.1	620.3	902.5	817.2	574.3	662.9	1355.4	1421.0	1161.8	728.6	275.7
87.5°	193.6	275.7	495.6	393.8	157.5	137.8	390.5	318.3	295.4	203.5	62.4
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°	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9	10839.9
2.5°	10899.0	10905.6	10872.8	10813.7	10754.6	10679.1	10593.8	10528.2	10498.6	10495.4	10492.1
5°	11017.2	11033.6	10908.9	10725.1	10521.6	10272.2	10058.9	9816.0	9753.7	9655.2	9684.7
7.5°	11207.5	11197.7	10951.5	10561.0	10085.1	9556.7	9110.4	8851.1	8582.0	8506.6	8509.8
10°	11479.9	11417.6	10951.5	10226.2	9432.0	8647.7	8024.1	7630.3	7417.0	7239.8	7174.1
12.5°	11768.7	11611.2	10846.5	9756.9	8591.9	7630.3	6960.8	6429.1	6291.3	6146.9	6150.2
15°	12044.4	11781.8	10639.8	9097.3	7686.1	6544.0	5894.2	5575.9	5533.2	5549.6	5546.3
17.5°	12293.8	11903.3	10324.7	8362.2	6629.3	5612.0	5267.4	5290.3	5405.2	5487.3	5497.1
20°	12546.5	11975.5	9855.4	7377.6	5631.7	5047.5	5060.6	5241.1	5415.1	5526.6	5543.0
22.5°	12786.1	12008.3	9304.0	6425.9	4909.6	4807.9	5001.5	5195.2	5365.8	5474.1	5490.5
25°	12943.6	11932.8	8523.0	5431.5	4555.2	4722.6	4926.1	5090.1	5234.5	5346.1	5372.4
27.5°	12986.3	11689.9	7554.8	4627.4	4391.1	4640.5	4827.6	4949.0	5060.6	5165.6	5185.3
30°	12963.3	11332.2	6491.5	4154.8	4295.9	4545.4	4689.8	4778.4	4912.9	4995.0	5011.4
32.5°	12927.2	10915.4	5382.2	3902.1	4217.2	4456.8	4542.1	4620.8	4617.6	4584.7	4607.7
35°	12940.3	10416.6	4483.0	3751.2	4148.3	4391.1	4463.3	4364.9	4082.6	4069.5	4056.4
37.5°	13009.3	9924.3	3829.9	3646.1	4112.2	4381.3	4420.7	3967.8	3718.3	3603.5	3573.9
40°	13186.5	9350.0	3400.0	3567.4	4108.9	4456.8	4227.0	3767.6	3288.4	3065.2	3048.8
42.5°	13422.8	8785.5	3137.4	3518.1	4148.3	4571.6	4148.3	3485.3	2963.5	2832.2	2812.5
45°	13773.9	8139.0	2993.0	3495.2	4207.3	4614.3	4122.0	3278.6	2832.2	2727.2	2727.2
47.5°	14171.0	7522.0	2914.3	3478.8	4282.8	4584.7	3889.0	3212.9	2769.9	2783.0	2845.4
50°	14564.8	6987.1	2855.2	3442.7	4348.5	4568.3	3793.8	3209.6	2786.3	2953.7	3065.2
52.5°	15021.0	6609.6	2783.0	3383.6	4348.5	4463.3	3764.3	3275.3	2832.2	2881.5	2930.7
55°	15572.4	6491.5	2691.1	3255.6	4269.7	4200.8	3747.9	3370.5	2865.1	2750.2	2769.9
57.5°	16300.9	6681.8	2602.5	3094.8	4089.2	3928.4	3741.3	3396.7	2789.6	2694.4	2674.7
60°	17147.7	7059.3	2576.3	2930.7	3843.0	3695.4	3701.9	3321.2	2684.6	2586.1	2602.5
62.5°	17741.7	7285.7	2559.8	2806.0	3573.9	3439.4	3606.8	3229.3	2638.6	2553.3	2569.7
65°	17741.7	7010.0	2408.9	2615.6	3226.1	3130.9	3491.9	3114.5	2579.5	2481.1	2464.7
67.5°	17068.9	6206.0	2179.1	2330.1	2842.1	2779.7	3331.1	2976.6	2490.9	2415.4	2376.1
70°	15316.4	4706.2	1890.3	1995.4	2356.4	2412.2	3124.3	2789.6	2343.2	2251.3	2192.3
71°	14545.2	4099.0	1768.9	1824.7	2169.3	2251.3	3025.9	2710.8	2277.6	2146.3	2041.3
72.5°	13058.5	3452.5	1585.1	1608.1	1854.2	2001.9	2819.1	2559.8	2152.9	1965.8	1847.7
75°	9921.0	2520.5	1276.6	1263.5	1371.8	1588.4	2385.9	2280.9	1887.1	1634.4	1565.4
77.5°	4286.1	1371.8	955.0	964.9	932.0	1204.4	1877.2	1959.3	1618.0	1329.1	1266.8
80°	1299.6	790.9	653.1	666.2	623.6	807.3	1322.6	1535.9	1299.6	1033.8	948.5
82.5°	666.2	472.6	446.3	439.8	397.1	456.2	800.8	1050.2	928.8	646.5	571.0
85°	288.8	252.7	219.9	213.3	187.1	164.1	285.5	525.1	492.3	361.0	344.6
87.5°	72.2	65.6	42.7	39.4	23.0	3.3	0.0	0.0	0.0	0.0	0.0
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)