

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: P529646

Luminaire Tested: **GALN-SA4D-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26892 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

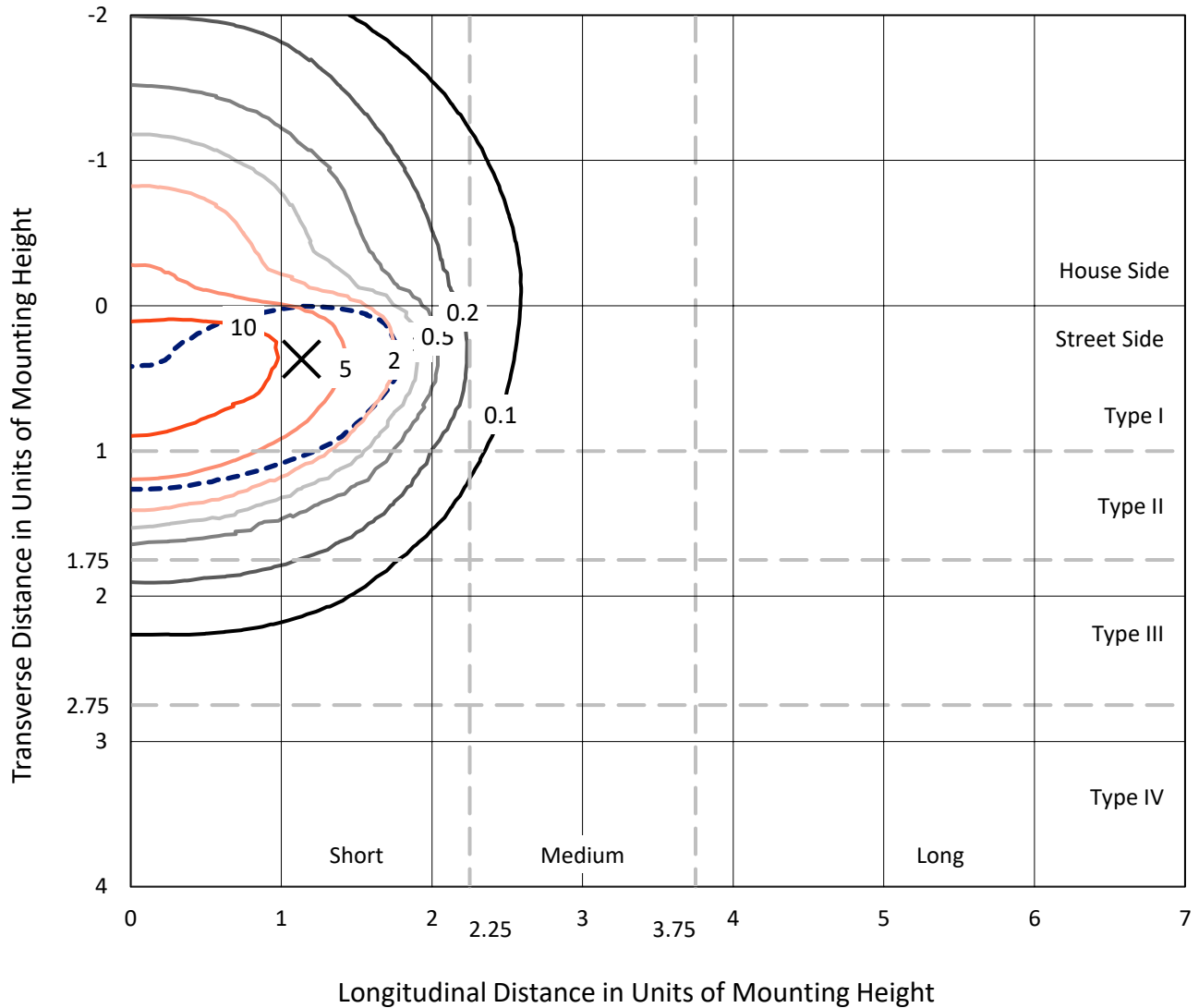
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

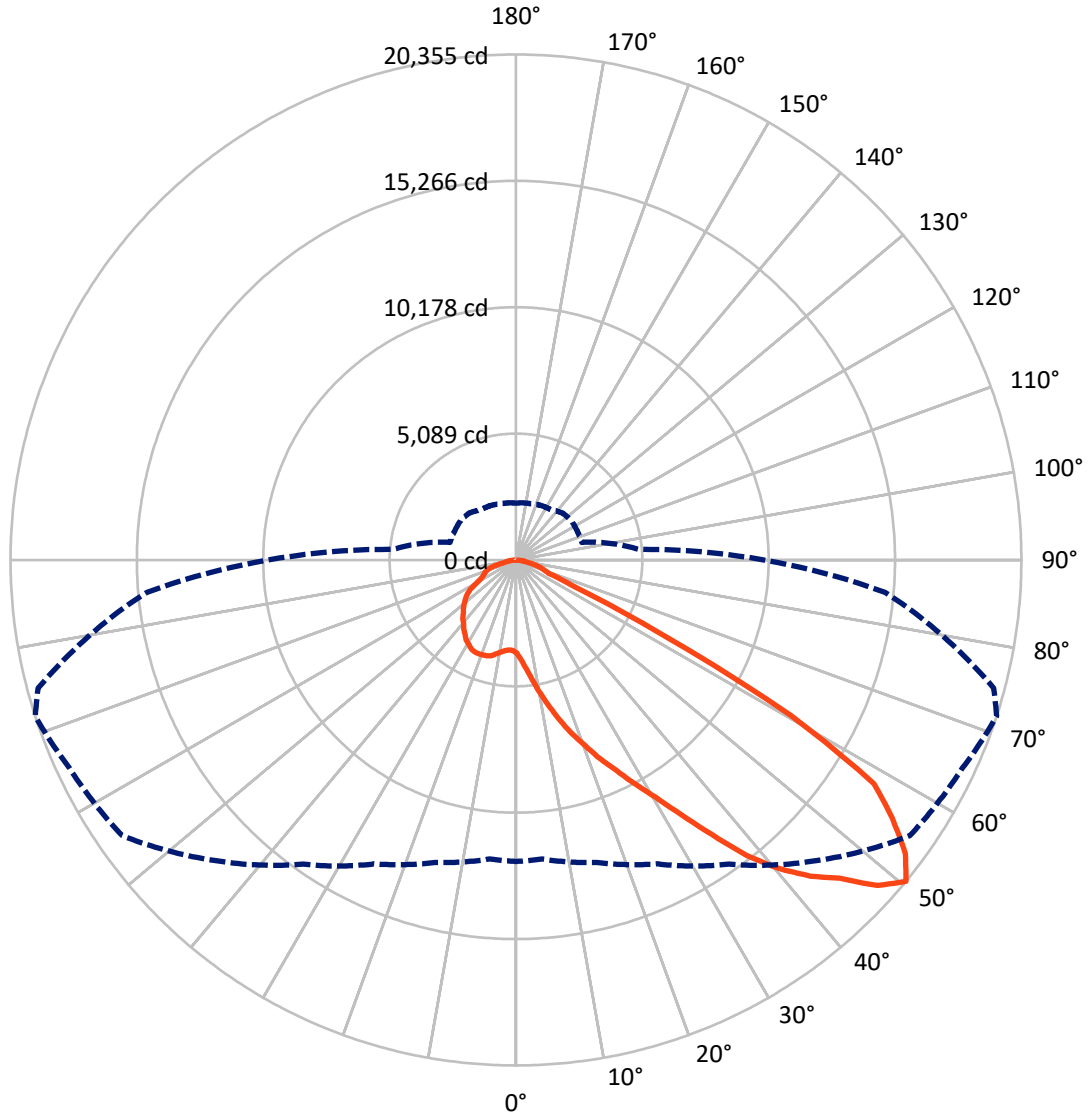
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6161.1	0.0	6161.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20730.9	0.0	20730.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	26892.0	0.0	26892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	1.6
10°-20°	1646.1	6.1
20°-30°	3191.8	11.9
30°-40°	5287.6	19.7
40°-50°	7398.6	27.5
50°-60°	6241.6	23.2
60°-70°	1902.4	7.1
70°-80°	667.4	2.5
80°-90°	116.0	0.4
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°	26892.0	100.0
0°-180°	26892.0	100.0

Coefficient of Utilization



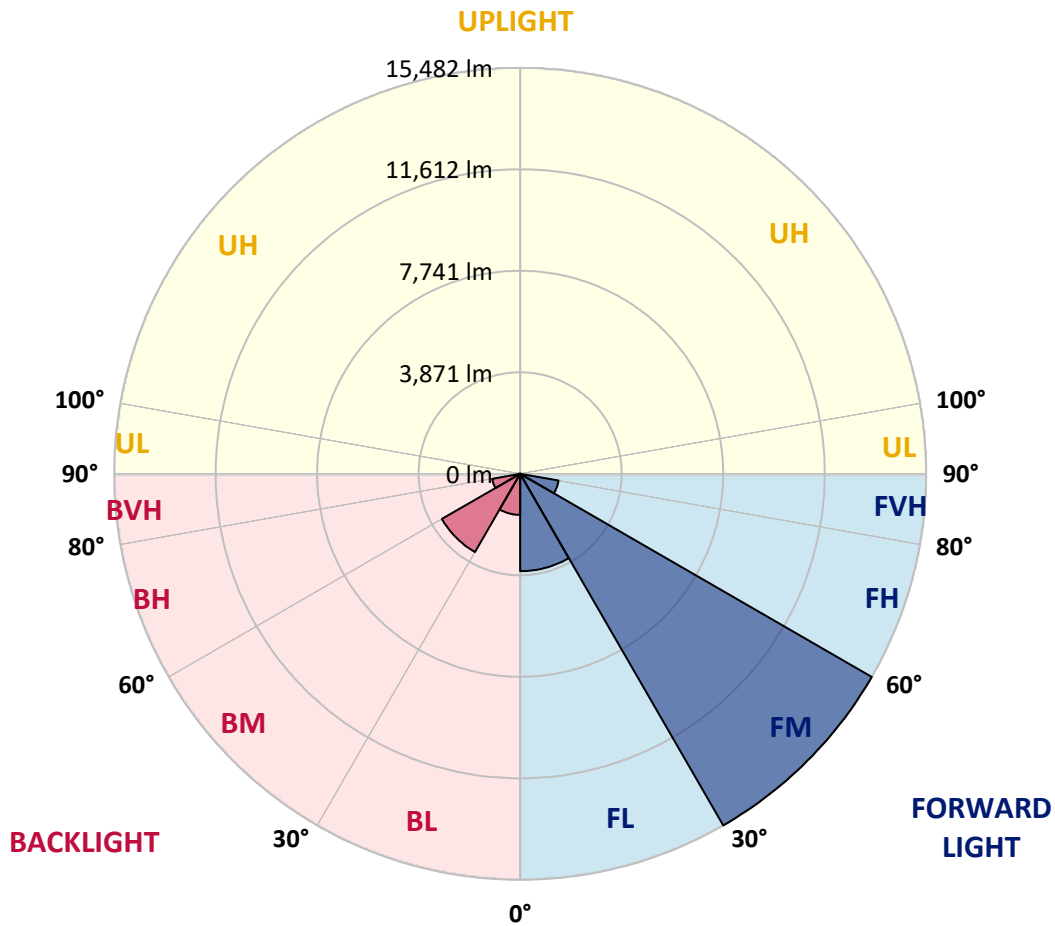
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.1	13.8			
FM (30°-60°)	15482.4	57.6			
FH (60°-80°)	1484.4	5.5			G1/1800
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	1566.2	5.8	B3/2500		
BM (30°-60°)	3445.4	12.8	B3/5000		
BH (60°-80°)	1085.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	64.1	0.2			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°	72°	75°	85°
0°	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6
2.5°	4815.1	4785.1	4695.3	4665.4	4558.9	4365.9	4299.3	4103.0	4019.8	3943.3	3853.4
5°	6089.6	5949.8	5939.8	5770.1	5523.9	5380.8	4954.9	4668.7	4405.8	4272.7	4026.4
7.5°	6901.5	6904.9	6904.9	6765.1	6568.8	6206.0	5823.4	5307.6	4911.6	4715.3	4296.0
10°	7673.5	7607.0	7570.4	7557.1	7424.0	7071.2	6661.9	6023.0	5480.6	5251.0	4499.0
12.5°	8219.3	8162.7	8245.9	8202.6	8106.1	7876.5	7490.5	6761.8	6082.9	5773.5	4825.1
15°	8478.8	8518.8	8585.3	8705.1	8661.8	8575.3	8149.4	7520.5	6731.8	6382.4	5114.6
17.5°	8878.1	8768.3	8848.2	8997.9	9117.7	9077.8	8834.9	8069.5	7374.1	6944.8	5503.9
20°	9157.7	9094.4	9134.4	9307.4	9397.3	9623.5	9497.1	8788.3	7989.7	7537.1	5963.1
22.5°	9956.3	9863.1	9733.3	9760.0	9793.2	9953.0	9982.9	9576.9	8705.1	8225.9	6399.1
25°	10941.3	10854.8	10701.7	10545.3	10448.8	10418.8	10522.0	10195.9	9390.6	8894.8	6868.3
27.5°	12026.1	11879.7	11783.2	11460.4	11200.8	11160.9	11111.0	10934.6	10202.5	9666.8	7397.3
30°	13081.0	12964.5	12834.7	12318.9	12049.4	12006.1	11759.9	11809.8	11084.4	10488.7	7996.3
32.5°	13879.6	13889.6	13593.4	13204.1	12951.2	12721.6	12631.7	12774.8	12215.8	11736.6	8665.2
35°	14525.2	14555.1	14272.3	13919.5	13646.7	13806.4	13766.4	13833.0	13566.8	12981.1	9443.8
37.5°	15154.1	15004.3	14701.5	14531.8	14388.7	14651.6	14991.0	15047.6	15097.5	14408.7	10349.0
40°	15257.2	15270.5	15094.2	15214.0	15034.3	15430.3	16218.9	16145.7	16348.7	15746.4	11330.6
42.5°	15110.8	15140.8	15210.6	15380.4	15812.9	16288.8	17460.1	17160.6	17406.9	16871.1	12285.6
45°	14871.2	14748.1	14834.6	15480.2	16228.9	17287.1	18594.9	18361.9	18282.1	17832.8	13423.7
47.5°	13726.5	13853.0	14122.5	14917.8	16042.6	17460.1	19400.1	19346.9	19586.5	19270.4	14458.6
50°	12139.2	12089.3	12608.4	13503.6	14954.4	17120.7	19356.9	19839.4	20355.2	19915.9	14921.1
52.5°	9091.1	9357.3	9803.2	10914.7	12984.5	15270.5	18411.8	19217.1	19636.4	19543.2	14548.4
55°	5746.8	5826.7	6096.2	7417.3	9280.8	12255.7	15783.0	17649.8	18398.5	18747.9	14205.7
57.5°	2791.9	2642.1	2971.6	4033.1	5360.8	8242.6	12172.5	15373.7	17000.9	17633.2	13460.3
60°	1457.5	1514.1	1643.9	2023.2	2771.9	4279.3	7587.0	10245.8	12731.6	13703.2	10202.5
62.5°	1207.9	1227.9	1314.4	1504.1	1843.5	2462.5	3873.4	4994.8	6492.2	7367.4	5803.4
65°	1024.9	1034.9	1128.1	1254.5	1470.8	1733.7	1993.3	2086.4	2525.7	2592.2	2063.1
67.5°	855.2	865.2	965.0	1084.8	1224.6	1294.5	1361.0	1354.3	1404.3	1384.3	1381.0
70°	658.9	668.9	772.0	898.5	968.3	928.4	1134.7	1181.3	1201.3	1217.9	1244.5
72.5°	475.9	495.8	575.7	665.5	628.9	722.1	935.1	1004.9	1031.6	1041.6	1074.8
75°	346.1	352.7	372.7	346.1	399.3	502.5	658.9	745.4	778.7	788.7	838.6
77.5°	153.1	156.4	159.7	199.7	256.2	312.8	392.7	462.5	509.1	522.4	535.8
80°	79.9	83.2	103.2	136.4	183.0	229.6	286.2	326.1	356.1	359.4	372.7
82.5°	49.9	53.2	73.2	96.5	129.8	169.7	209.6	242.9	266.2	269.5	272.9
85°	23.3	29.9	43.3	59.9	86.5	109.8	113.1	96.5	103.2	106.5	99.8
87.5°	6.7	10.0	13.3	10.0	13.3	13.3	16.6	20.0	20.0	20.0	23.3
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°	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6
2.5°	3803.5	3773.5	3657.1	3613.8	3500.7	3520.6	3460.7	3457.4	3444.1	3440.8	3437.5
5°	3896.7	3803.5	3663.7	3557.2	3494.0	3487.4	3444.1	3444.1	3457.4	3467.4	3444.1
7.5°	4049.7	3943.3	3707.0	3607.2	3550.6	3540.6	3510.7	3487.4	3517.3	3507.3	3480.7
10°	4226.1	4039.8	3790.2	3703.7	3610.5	3587.2	3587.2	3597.2	3547.3	3563.9	3537.3
12.5°	4422.4	4172.9	3896.7	3796.8	3687.0	3673.7	3667.1	3593.9	3620.5	3607.2	3540.6
15°	4672.0	4325.9	4033.1	3863.4	3770.2	3710.3	3623.8	3610.5	3593.9	3560.6	3530.6
17.5°	4941.5	4492.3	4096.3	3883.4	3743.6	3700.3	3633.8	3563.9	3514.0	3520.6	3497.4
20°	5171.2	4645.4	4119.6	3903.3	3723.6	3640.4	3537.3	3494.0	3440.8	3437.5	3434.1
22.5°	5444.0	4851.7	4152.9	3850.1	3663.7	3577.2	3507.3	3430.8	3394.2	3347.6	3370.9
25°	5770.1	4931.6	4159.6	3820.1	3620.5	3467.4	3430.8	3347.6	3334.3	3267.7	3281.1
27.5°	6006.4	4974.8	4106.3	3727.0	3520.6	3404.2	3337.6	3277.7	3254.4	3204.5	3191.2
30°	6322.5	5041.4	3993.2	3610.5	3420.8	3291.0	3251.1	3237.8	3171.2	3118.0	3111.3
32.5°	6681.9	5084.6	3920.0	3490.7	3317.7	3217.8	3237.8	3174.6	3091.4	3044.8	3031.5
35°	6968.1	5101.3	3736.9	3354.3	3247.8	3184.6	3161.3	3147.9	3028.2	2984.9	2951.6
37.5°	7404.0	5064.7	3583.9	3257.8	3171.2	3147.9	3128.0	3038.1	2901.7	2838.5	2791.9
40°	7913.1	5054.7	3387.5	3121.3	3098.0	3124.7	3064.8	2925.0	2735.3	2665.4	2632.2
42.5°	8402.3	5124.6	3264.4	3048.1	3018.2	3028.2	2945.0	2735.3	2642.1	2602.2	2549.0
45°	9220.9	5271.0	3061.4	2935.0	2921.7	2915.0	2815.2	2595.6	2542.3	2492.4	2482.4
47.5°	9959.6	5174.5	2931.7	2818.5	2831.8	2795.2	2582.2	2512.4	2452.5	2402.6	2385.9
50°	10002.9	4944.9	2748.6	2728.7	2732.0	2668.8	2465.8	2419.2	2342.7	2309.4	2286.1
52.5°	9776.6	4568.9	2578.9	2585.6	2595.6	2492.4	2322.7	2289.4	2226.2	2179.6	2166.3
55°	9141.0	3983.2	2412.5	2439.2	2465.8	2269.5	2216.2	2133.0	2083.1	2016.6	2019.9
57.5°	8052.9	3207.8	2179.6	2222.9	2279.4	2063.1	2023.2	1920.0	1846.8	1793.6	1786.9
60°	5397.4	2282.8	1830.2	1846.8	1973.3	1886.8	1883.4	1780.3	1680.5	1633.9	1607.3
62.5°	3184.6	1743.7	1580.6	1564.0	1560.7	1610.6	1693.8	1657.2	1527.4	1437.5	1464.2
65°	1667.1	1507.4	1470.8	1414.2	1381.0	1367.7	1430.9	1447.5	1361.0	1264.5	1257.8
67.5°	1400.9	1400.9	1371.0	1351.0	1304.4	1247.9	1207.9	1154.7	1141.4	1114.8	1081.5
70°	1274.5	1307.8	1297.8	1251.2	1211.3	1148.0	1044.9	958.4	875.2	845.2	865.2
72.5°	1111.4	1144.7	1144.7	1121.4	1068.2	971.7	871.8	772.0	702.1	648.9	642.2
75°	855.2	871.8	911.8	885.2	815.3	755.4	652.2	549.1	482.5	432.6	422.6
77.5°	545.7	572.4	572.4	569.0	519.1	462.5	396.0	322.8	272.9	236.3	226.3
80°	362.7	379.4	392.7	379.4	346.1	302.8	252.9	203.0	166.4	136.4	129.8
82.5°	266.2	286.2	296.2	282.8	249.6	216.3	179.7	143.1	106.5	83.2	76.5
85°	103.2	106.5	119.8	143.1	139.8	136.4	109.8	79.9	59.9	43.3	39.9
87.5°	26.6	23.3	26.6	26.6	23.3	20.0	20.0	20.0	20.0	10.0	13.3
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)