

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: P455588

Luminaire Tested: **GALN-SA6D-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455588
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-SA6D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46323 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

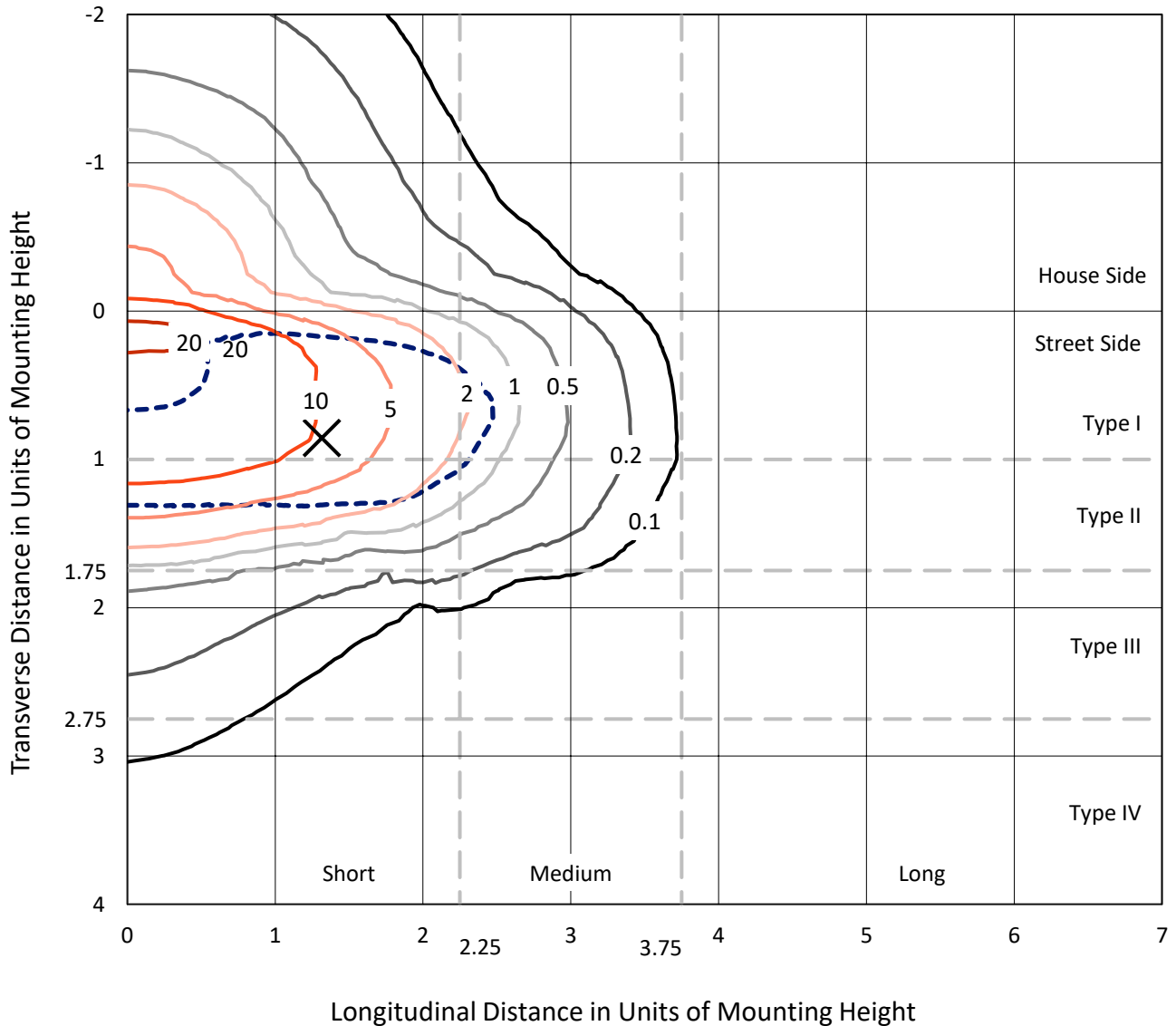
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

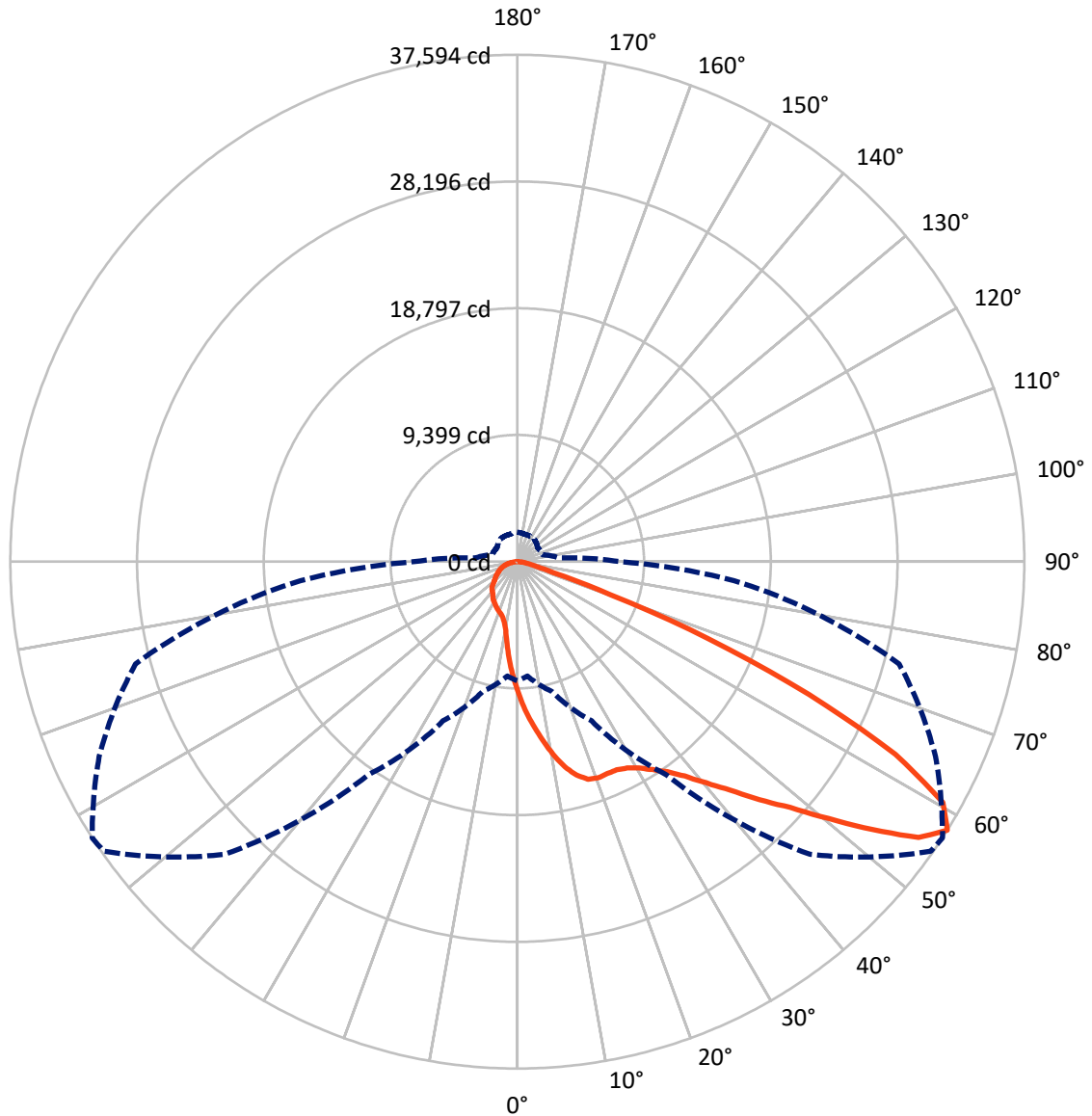
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	7044.4	0.0	7044.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	39278.6	0.0	39278.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	46323.0	0.0	46323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.3	2.0
10°-20°	2756.5	6.0
20°-30°	4577.2	9.9
30°-40°	6894.6	14.9
40°-50°	10351.5	22.3
50°-60°	11602.8	25.0
60°-70°	6790.5	14.7
70°-80°	2008.6	4.3
80°-90°	406.0	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°	46323.0	100.0
0°-180°	46323.0	100.0

Coefficient of Utilization



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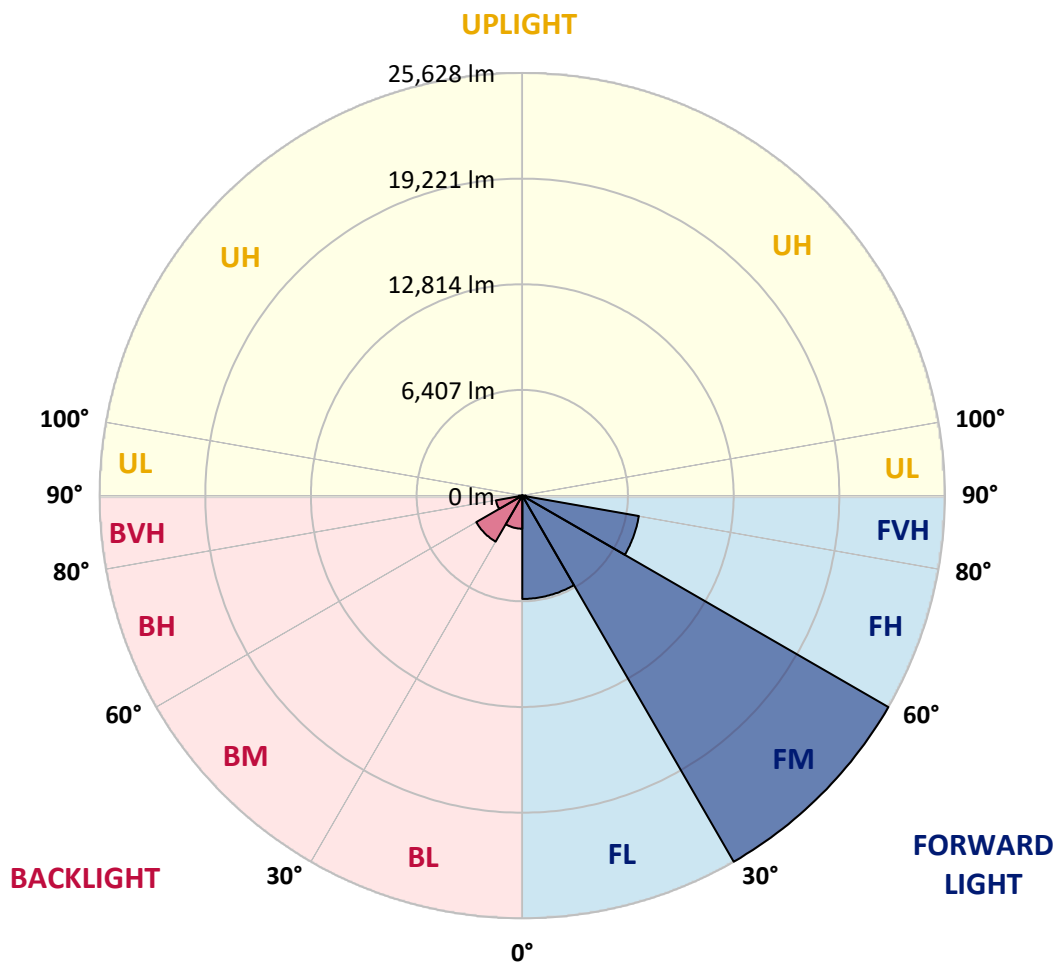
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6261.8	13.5			
FM	(30°-60°)	25627.9	55.3			
FH	(60°-80°)	7178.2	15.5			G3/7500
FVH	(80°-90°)	210.6	0.5			G2/225
BL	(0°-30°)	2007.2	4.3	B3/2500		
BM	(30°-60°)	3221.0	7.0	B3/5000		
BH	(60°-80°)	1620.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	195.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9
2.5°	12092.6	11960.8	11856.8	11765.5	11646.4	11324.3	11002.3	10997.2	10741.1	10345.6	9939.9
5°	14062.9	13885.4	13908.2	13624.2	13340.2	12873.6	12191.5	12156.0	11610.9	10870.5	10117.4
7.5°	15345.9	15348.5	15277.5	15115.2	14808.4	14278.4	13505.0	13330.1	12571.9	11448.6	10320.2
10°	15280.0	15348.5	15467.6	15607.1	15700.9	15439.7	14734.8	14521.8	13535.4	12148.4	10545.9
12.5°	14402.7	14509.1	14679.0	15029.0	15594.4	16025.5	15784.6	15612.2	14651.1	12845.7	10794.4
15°	13854.9	13918.3	14012.2	14248.0	14856.5	15888.6	16512.3	16421.1	15703.5	13634.3	11073.3
17.5°	13687.6	13751.0	13781.4	13925.9	14359.5	15416.9	16798.9	16961.2	16636.6	14359.5	11354.8
20°	13854.9	13885.4	13885.4	13971.6	14311.4	15140.5	16786.2	17113.3	17402.4	15229.3	11618.5
22.5°	14293.6	14306.3	14288.5	14319.0	14572.5	15216.6	16667.0	17072.7	18021.1	15967.2	11823.9
25°	15006.1	15026.4	14909.8	14838.8	15023.9	15551.3	16732.9	17105.7	18505.4	16672.1	11960.8
27.5°	15815.0	15840.4	15698.4	15533.6	15619.8	15964.6	16991.6	17326.3	18868.0	17366.9	12047.0
30°	16806.5	16816.6	16578.3	16380.5	16324.7	16580.8	17432.8	17744.7	19319.3	18185.9	12176.3
32.5°	17820.7	17896.8	17590.0	17311.1	17217.3	17295.9	18084.5	18386.2	19856.9	19065.8	12384.3
35°	19200.2	19212.8	18845.2	18505.4	18196.0	18297.5	18918.7	19136.8	20599.8	20082.6	12678.4
37.5°	20921.9	21038.5	20531.4	19897.5	19517.1	19370.0	19927.9	20166.2	21642.0	21330.1	13122.1
40°	22833.8	22876.9	22443.3	22047.7	21352.9	20927.0	21312.4	21571.0	22927.6	22818.6	13636.9
42.5°	24035.7	24129.5	24162.5	24121.9	23599.6	22884.5	23031.6	23153.3	24449.0	24215.7	14164.3
45°	24441.4	24580.9	25052.5	26051.6	26107.3	25402.4	25060.1	25176.7	26107.3	25625.6	14668.9
47.5°	23769.4	24007.8	24877.5	26926.4	28460.4	28513.7	27481.7	27225.6	27618.6	26794.5	15034.0
50°	22032.5	22083.2	23414.5	26381.2	29563.5	31488.0	30420.5	29943.8	29053.8	27659.2	15285.1
52.5°	19344.7	19403.0	20518.7	23848.1	28883.9	33567.3	33858.9	33006.9	30511.8	28331.1	15449.9
55°	14359.5	14696.8	15924.1	19141.8	25663.6	33372.1	36592.4	36108.1	32274.1	28863.6	15708.5
57.5°	8829.2	8519.9	9975.4	13023.2	19301.6	30689.3	37436.7	37594.0	34213.9	29309.9	16142.1
60°	4062.2	4123.0	4724.0	6717.0	11765.5	24007.8	35261.1	36255.1	35286.5	29294.7	16251.2
62.5°	2799.4	2743.6	2591.5	2949.0	5365.5	15183.6	29784.1	31467.8	33136.2	28384.4	15817.6
65°	2502.7	2446.9	2152.8	2053.9	2464.7	6618.1	21652.2	23777.1	27900.1	26087.1	14737.4
67.5°	2337.9	2261.8	1957.5	1764.8	1759.8	2634.6	12767.1	15325.6	20693.7	22055.3	12769.7
70°	2165.5	2104.6	1802.9	1589.9	1498.6	1655.8	5611.5	7345.9	13436.6	15893.6	9947.5
72.5°	1993.0	1922.0	1650.7	1422.5	1303.3	1239.9	2150.3	2796.9	7591.8	9529.1	6098.3
75°	1742.0	1706.5	1475.8	1288.1	1158.8	1001.6	1364.2	1556.9	3631.1	4376.6	3060.6
77.5°	1523.9	1485.9	1310.9	1125.8	1032.0	814.0	968.6	1057.4	1531.5	1775.0	1381.9
80°	1115.7	1153.7	1105.6	994.0	920.5	639.0	651.7	725.2	910.3	1006.7	844.4
82.5°	707.5	778.5	852.0	765.8	697.3	504.6	451.4	479.2	621.2	659.3	375.3
85°	296.7	301.7	494.5	466.6	398.1	299.2	271.3	286.5	332.2	347.4	175.0
87.5°	114.1	111.6	175.0	162.3	124.2	86.2	86.2	96.4	131.9	121.7	55.8
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°	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9	9731.9
2.5°	9764.9	9584.9	9227.3	8783.6	8459.0	8093.9	7771.9	7541.1	7454.9	7414.3	7338.3
5°	9757.3	9402.3	8661.9	7886.0	7262.2	6623.2	6083.1	5733.2	5702.7	5469.5	5446.6
7.5°	9759.8	9217.2	8038.1	6897.0	5946.2	5292.0	4845.7	4729.0	4589.6	4554.1	4571.8
10°	9767.4	8981.4	7368.7	5918.3	4997.8	4569.3	4401.9	4356.3	4361.4	4376.6	4379.1
12.5°	9777.6	8753.2	6673.9	5175.3	4465.3	4287.8	4270.1	4310.7	4353.8	4386.7	4394.3
15°	9790.3	8492.0	5996.9	4576.9	4199.1	4183.9	4242.2	4310.7	4371.5	4419.7	4427.3
17.5°	9775.0	8187.7	5428.9	4209.2	4052.0	4125.5	4221.9	4308.1	4363.9	4409.5	4414.6
20°	9739.5	7847.9	4881.2	3950.6	3960.7	4079.9	4183.9	4265.0	4325.9	4348.7	4366.4
22.5°	9602.6	7442.2	4404.5	3750.3	3851.7	4016.5	4140.8	4188.9	4120.5	4072.3	4085.0
25°	9369.3	6914.8	3960.7	3588.0	3752.8	3927.8	4054.5	3937.9	3882.1	3861.8	3872.0
27.5°	9077.7	6336.7	3626.0	3418.1	3626.0	3828.9	3793.4	3773.1	3747.7	3714.8	3722.4
30°	8763.3	5771.2	3342.0	3286.2	3489.1	3605.7	3620.9	3653.9	3626.0	3575.3	3595.6
32.5°	8471.7	5238.7	3126.5	3174.7	3392.7	3375.0	3489.1	3527.1	3397.8	3227.9	3235.5
35°	8223.2	4744.3	2964.2	3065.6	3227.9	3235.5	3349.6	3217.8	3078.3	2997.2	3002.2
37.5°	8035.6	4358.8	2857.7	2971.8	3017.5	3113.8	3053.0	2984.5	2966.7	2911.0	2913.5
40°	7924.0	4021.6	2789.2	2898.3	2890.7	2956.6	2761.4	2829.8	2855.2	2837.4	2840.0
42.5°	7812.4	3783.2	2718.2	2796.9	2794.3	2665.0	2621.9	2680.2	2746.1	2753.7	2748.7
45°	7723.7	3598.1	2644.7	2642.2	2692.9	2490.0	2477.4	2512.9	2606.7	2652.3	2649.8
47.5°	7624.8	3443.5	2533.1	2462.1	2477.4	2381.0	2360.7	2375.9	2490.0	2563.6	2583.9
50°	7500.5	3288.8	2393.7	2297.3	2233.9	2279.6	2284.6	2287.2	2401.3	2485.0	2502.7
52.5°	7401.6	3172.1	2233.9	2162.9	2086.9	2188.3	2226.3	2231.4	2299.9	2368.3	2381.0
55°	7460.0	3106.2	2076.7	2026.0	1957.5	2094.5	2168.0	2178.1	2193.4	2244.1	2251.7
57.5°	7634.9	3121.4	1949.9	1884.0	1833.3	1982.9	2107.1	2114.8	2104.6	2165.5	2175.6
60°	7688.2	3113.8	1856.1	1726.8	1696.4	1863.7	2018.4	2033.6	2031.1	2119.8	2137.6
62.5°	7465.0	3017.5	1762.3	1594.9	1574.7	1742.0	1894.2	1955.0	1967.7	2094.5	2117.3
65°	6940.2	2819.7	1638.0	1455.5	1455.5	1612.7	1775.0	1858.7	1894.2	2064.0	2089.4
67.5°	6247.9	2586.4	1511.3	1336.3	1331.2	1488.4	1648.2	1734.4	1790.2	2020.9	2036.1
70°	5185.5	2272.0	1354.1	1207.0	1207.0	1349.0	1493.5	1597.5	1678.6	1939.8	1939.8
72.5°	3552.5	1889.1	1163.9	1059.9	1062.4	1194.3	1341.4	1458.0	1554.4	1777.5	1782.6
75°	2246.6	1475.8	956.0	902.7	912.8	1037.1	1189.2	1310.9	1503.7	1757.2	1764.8
77.5°	1194.3	1037.1	760.7	748.0	760.7	874.8	1044.7	1212.1	1508.7	1523.9	1498.6
80°	773.4	735.3	601.0	575.6	580.7	704.9	930.6	1151.2	1212.1	1227.3	1171.5
82.5°	420.9	466.6	426.0	400.6	400.6	550.2	793.7	915.4	869.7	722.7	689.7
85°	180.0	218.1	220.6	192.7	185.1	339.8	532.5	499.5	464.0	443.7	438.7
87.5°	50.7	71.0	71.0	53.2	40.6	93.8	106.5	30.4	0.0	2.5	5.1
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)