

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: P457444

Luminaire Tested: **GALN-SA8D-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457444
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-SA8D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 63079 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

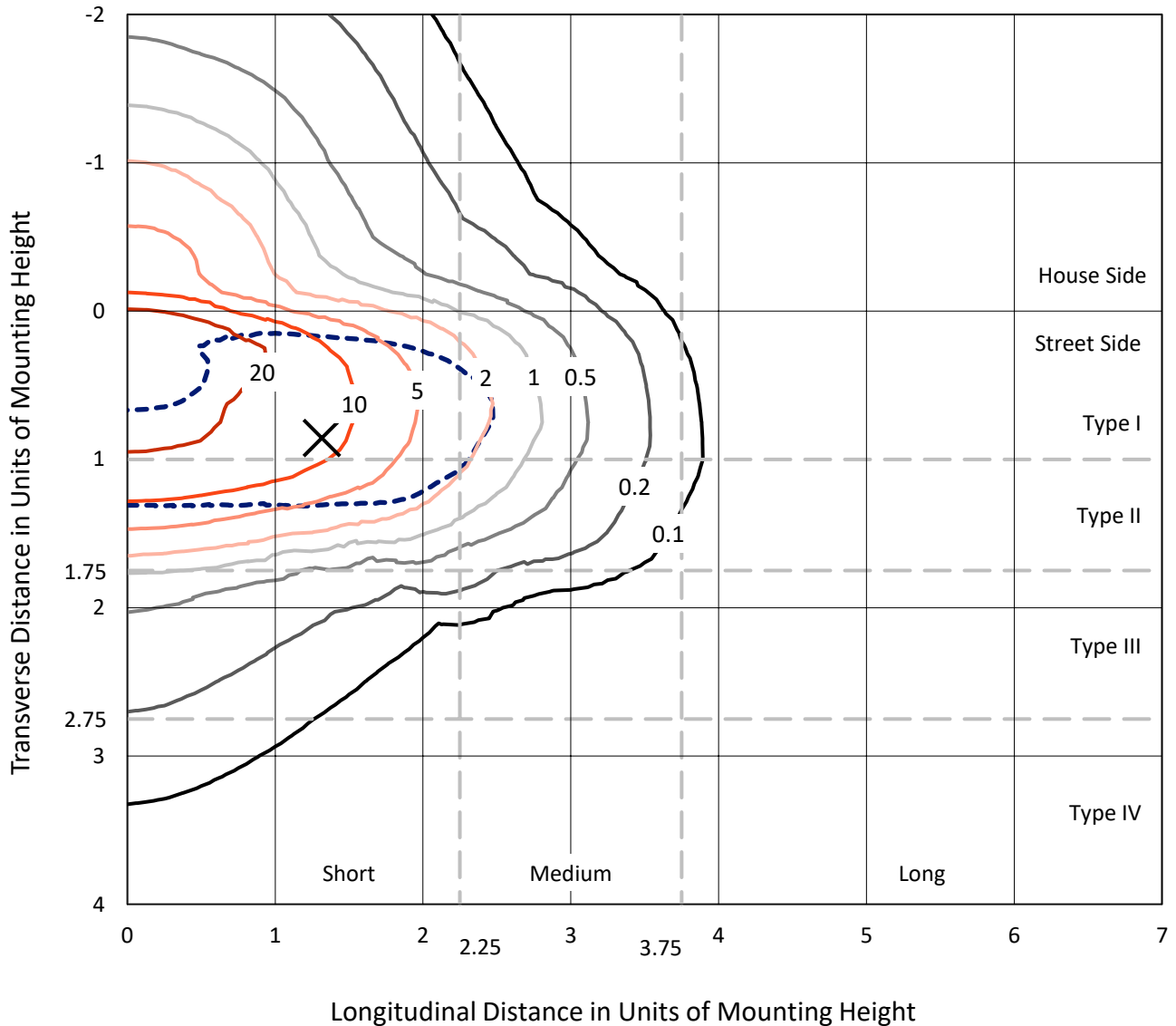
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

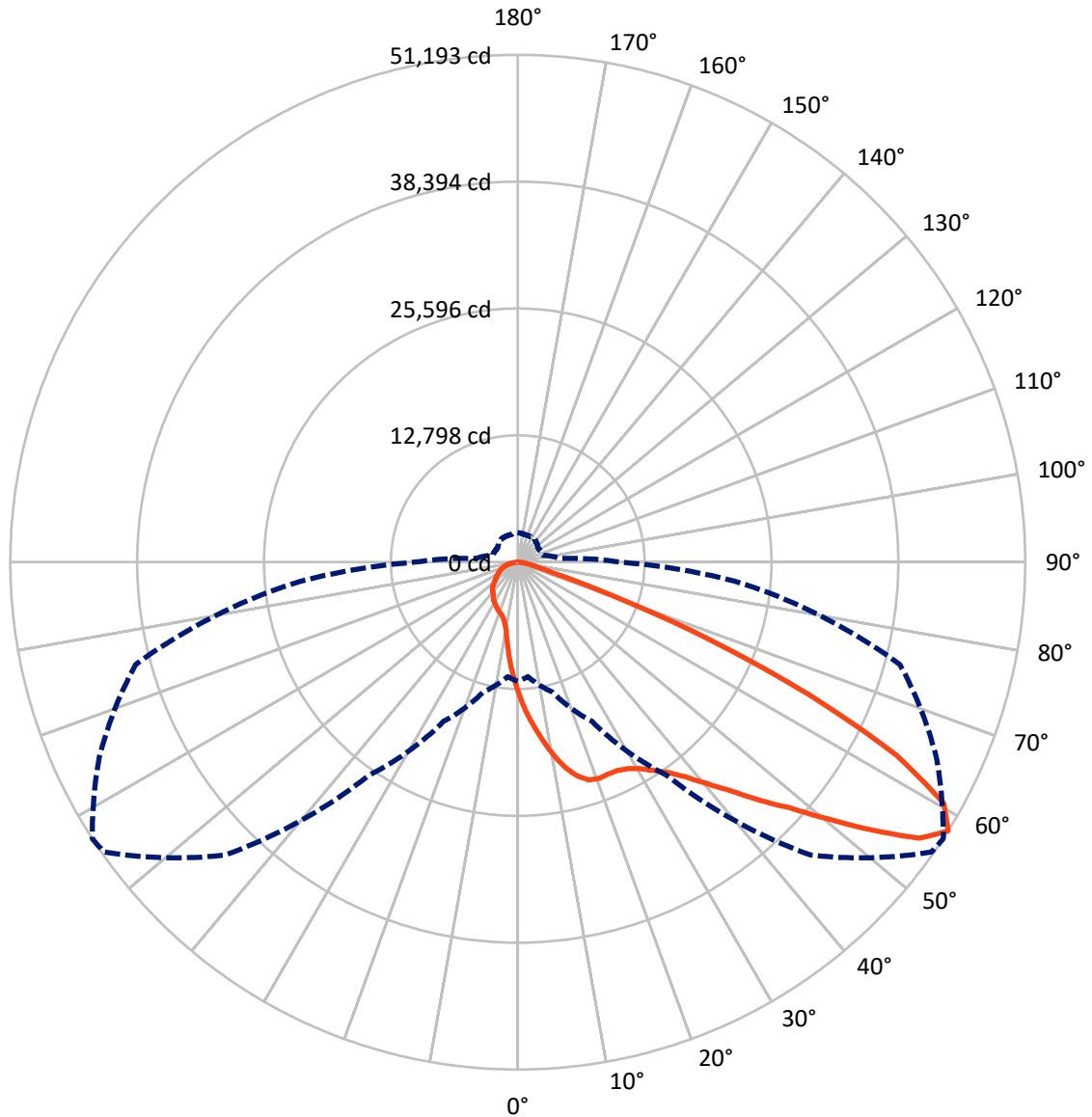
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.3 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	9592.5	0.0	9592.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	53486.5	0.0	53486.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	63079.0	0.0	63079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1273.7	2.0
10°-20°	3753.6	6.0
20°-30°	6232.9	9.9
30°-40°	9388.5	14.9
40°-50°	14095.9	22.3
50°-60°	15799.8	25.0
60°-70°	9246.8	14.7
70°-80°	2735.1	4.3
80°-90°	552.8	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°	63079.0	100.0
0°-180°	63079.0	100.0

Coefficient of Utilization



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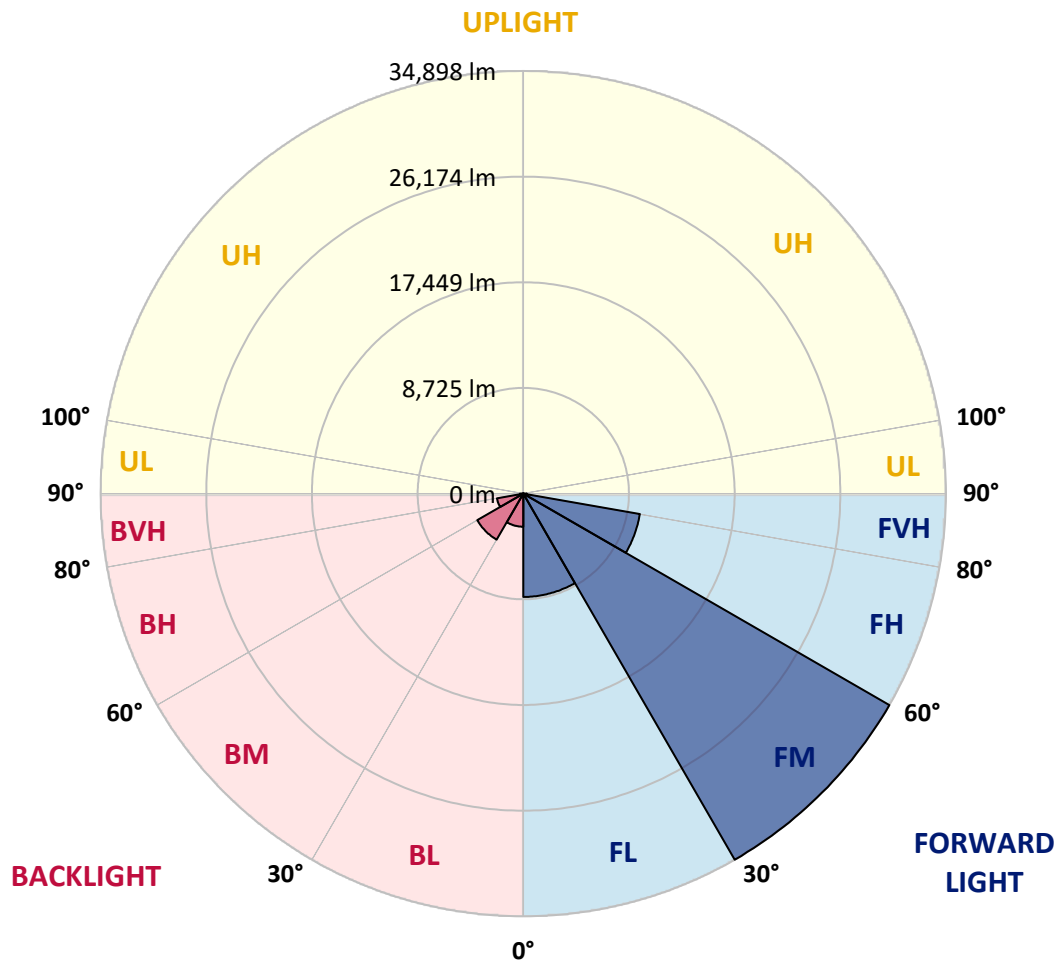
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8526.8	13.5			
FM	(30°-60°)	34898.1	55.3			
FH	(60°-80°)	9774.7	15.5			G4/12000
FVH	(80°-90°)	286.8	0.5			G3/500
BL	(0°-30°)	2733.2	4.3	B4/5000		
BM	(30°-60°)	4386.1	7.0	B3/5000		
BH	(60°-80°)	2207.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	266.0	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	16466.8	16287.3	16145.7	16021.4	15859.1	15420.6	14982.1	14975.2	14626.4	14087.8	13535.3
5°	19149.7	18908.0	18939.1	18552.4	18165.6	17530.3	16601.5	16553.1	15810.8	14802.5	13777.0
7.5°	20896.9	20900.3	20803.6	20582.7	20164.9	19443.2	18390.1	18151.8	17119.4	15589.8	14053.2
10°	20807.1	20900.3	21062.6	21252.5	21380.3	21024.6	20064.7	19774.7	18431.5	16542.8	14360.6
12.5°	19612.4	19757.4	19988.8	20465.3	21235.2	21822.2	21494.2	21259.4	19950.8	17492.3	14698.9
15°	18866.6	18952.9	19080.6	19401.8	20230.5	21635.8	22485.2	22360.9	21383.7	18566.2	15078.8
17.5°	18638.7	18725.0	18766.4	18963.2	19553.7	20993.5	22875.4	23096.4	22654.4	19553.7	15462.0
20°	18866.6	18908.0	18908.0	19025.4	19488.1	20617.2	22858.1	23303.5	23697.2	20738.0	15821.1
22.5°	19463.9	19481.2	19457.0	19498.4	19843.7	20720.8	22695.8	23248.3	24539.7	21742.8	16100.8
25°	20434.2	20461.8	20303.0	20206.3	20458.3	21176.5	22785.6	23293.2	25199.2	22702.7	16287.3
27.5°	21535.6	21570.2	21376.8	21152.4	21269.8	21739.4	23137.8	23593.6	25692.9	23648.8	16404.7
30°	22885.7	22899.5	22575.0	22305.6	22229.7	22578.4	23738.6	24163.3	26307.5	24764.1	16580.8
32.5°	24266.9	24370.5	23952.7	23572.9	23445.1	23552.1	24626.0	25036.9	27039.5	25962.2	16863.9
35°	26145.3	26162.5	25661.8	25199.2	24777.9	24916.0	25762.0	26058.9	28051.2	27346.9	17264.4
37.5°	28489.8	28648.6	27958.0	27094.8	26576.9	26376.6	27136.2	27460.8	29470.4	29045.7	17868.7
40°	31093.2	31151.9	30561.5	30022.8	29076.8	28496.7	29021.5	29373.7	31221.0	31072.5	18569.6
42.5°	32729.9	32857.7	32902.5	32847.3	32136.0	31162.3	31362.6	31528.3	33292.7	32975.1	19287.8
45°	33282.4	33472.3	34114.5	35474.9	35550.9	34591.0	34124.9	34283.7	35550.9	34894.9	19974.9
47.5°	32367.4	32691.9	33876.3	36666.2	38755.2	38827.7	37422.4	37073.6	37608.8	36486.6	20472.2
50°	30002.1	30071.2	31883.9	35923.8	40257.2	42877.9	41424.3	40775.1	39563.2	37664.1	20814.0
52.5°	26342.1	26421.5	27940.8	32474.4	39331.8	45709.3	46106.4	44946.2	41548.6	38579.1	21038.4
55°	19553.7	20012.9	21684.1	26065.8	34946.7	45443.4	49828.6	49169.1	43948.3	39304.2	21390.6
57.5°	12022.9	11601.7	13583.7	17734.0	26283.4	41790.3	50978.4	51192.5	46589.8	39911.9	21981.1
60°	5531.5	5614.4	6432.7	9146.7	16021.4	32691.9	48015.8	49369.4	48050.4	39891.2	22129.5
62.5°	3812.0	3736.0	3528.8	4015.7	7306.3	20675.9	40557.6	42850.3	45122.3	38651.6	21539.1
65°	3408.0	3332.0	2931.5	2796.8	3356.2	9012.0	29484.2	32377.7	37992.1	35523.3	20068.2
67.5°	3183.6	3080.0	2665.6	2403.2	2396.3	3587.5	17385.3	20869.2	28179.0	30033.2	17388.7
70°	2948.8	2865.9	2455.0	2165.0	2040.7	2254.7	7641.2	10003.0	18296.8	21642.7	13545.7
72.5°	2714.0	2617.3	2247.8	1937.1	1774.8	1688.5	2928.0	3808.5	10337.9	12975.9	8304.2
75°	2372.1	2323.8	2009.6	1754.1	1578.0	1363.9	1857.7	2120.1	4944.5	5959.7	4167.6
77.5°	2075.2	2023.4	1785.1	1533.1	1405.3	1108.4	1319.0	1439.9	2085.5	2417.0	1881.8
80°	1519.3	1571.1	1505.5	1353.5	1253.4	870.1	887.4	987.5	1239.6	1370.8	1149.8
82.5°	963.4	1060.0	1160.2	1042.8	949.5	687.1	614.6	652.6	846.0	897.8	511.0
85°	404.0	410.9	673.3	635.3	542.1	407.4	369.5	390.2	452.3	473.0	238.2
87.5°	155.4	151.9	238.2	221.0	169.2	117.4	117.4	131.2	179.6	165.7	76.0
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°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	13297.1	13051.9	12565.1	11960.8	11518.8	11021.6	10583.1	10268.9	10151.5	10096.2	9992.7
5°	13286.7	12803.3	11795.1	10738.5	9889.1	9018.9	8283.5	7807.0	7765.5	7447.9	7416.8
7.5°	13290.2	12551.2	10945.6	9391.8	8097.0	7206.2	6598.5	6439.6	6249.7	6201.4	6225.6
10°	13300.5	12230.1	10034.1	8059.0	6805.6	6222.1	5994.2	5932.1	5939.0	5959.7	5963.1
12.5°	13314.3	11919.4	9088.0	7047.3	6080.5	5838.8	5814.7	5869.9	5928.6	5973.5	5983.9
15°	13331.6	11563.7	8166.1	6232.5	5718.0	5697.3	5776.7	5869.9	5952.8	6018.4	6028.7
17.5°	13310.9	11149.4	7392.6	5731.8	5517.7	5617.8	5749.1	5866.5	5942.4	6004.6	6011.5
20°	13262.5	10686.7	6646.8	5379.6	5393.4	5555.7	5697.3	5807.8	5890.6	5921.7	5945.9
22.5°	13076.1	10134.2	5997.7	5106.8	5244.9	5469.4	5638.6	5704.2	5610.9	5545.3	5562.6
25°	12758.4	9416.0	5393.4	4885.8	5110.3	5348.5	5521.2	5362.3	5286.4	5258.7	5272.6
27.5°	12361.3	8628.8	4937.6	4654.5	4937.6	5213.9	5165.5	5137.9	5103.4	5058.5	5068.8
30°	11933.2	7858.8	4550.9	4474.9	4751.2	4910.0	4930.7	4975.6	4937.6	4868.6	4896.2
32.5°	11536.1	7133.7	4257.4	4323.0	4620.0	4595.8	4751.2	4803.0	4626.9	4395.5	4405.9
35°	11197.7	6460.3	4036.4	4174.5	4395.5	4405.9	4561.3	4381.7	4191.8	4081.3	4088.2
37.5°	10942.2	5935.5	3891.4	4046.8	4108.9	4240.1	4157.3	4064.0	4039.9	3963.9	3967.4
40°	10790.3	5476.3	3798.2	3946.6	3936.3	4026.1	3760.2	3853.4	3887.9	3863.8	3867.2
42.5°	10638.3	5151.7	3701.5	3808.5	3805.1	3629.0	3570.3	3649.7	3739.5	3749.8	3742.9
45°	10517.5	4899.6	3601.4	3597.9	3667.0	3390.7	3373.5	3421.8	3549.6	3611.7	3608.3
47.5°	10382.8	4689.0	3449.4	3352.8	3373.5	3242.3	3214.6	3235.4	3390.7	3490.9	3518.5
50°	10213.6	4478.4	3259.5	3128.3	3042.0	3104.1	3111.1	3114.5	3269.9	3383.8	3408.0
52.5°	10079.0	4319.6	3042.0	2945.3	2841.7	2979.8	3031.6	3038.5	3131.8	3225.0	3242.3
55°	10158.4	4229.8	2827.9	2758.9	2665.6	2852.1	2952.2	2966.0	2986.7	3055.8	3066.2
57.5°	10396.6	4250.5	2655.3	2565.5	2496.4	2700.2	2869.3	2879.7	2865.9	2948.8	2962.6
60°	10469.1	4240.1	2527.5	2351.4	2310.0	2537.9	2748.5	2769.2	2765.8	2886.6	2910.8
62.5°	10165.3	4108.9	2399.8	2171.9	2144.2	2372.1	2579.3	2662.2	2679.4	2852.1	2883.2
65°	9450.5	3839.6	2230.6	1982.0	1982.0	2196.0	2417.0	2531.0	2579.3	2810.6	2845.2
67.5°	8507.9	3521.9	2057.9	1819.7	1812.8	2026.8	2244.4	2361.8	2437.7	2752.0	2772.7
70°	7061.2	3093.8	1843.8	1643.6	1643.6	1836.9	2033.7	2175.3	2285.8	2641.5	2641.5
72.5°	4837.5	2572.4	1584.9	1443.3	1446.8	1626.3	1826.6	1985.4	2116.6	2420.5	2427.4
75°	3059.3	2009.6	1301.7	1229.2	1243.0	1412.2	1619.4	1785.1	2047.6	2392.8	2403.2
77.5°	1626.3	1412.2	1035.9	1018.6	1035.9	1191.2	1422.6	1650.5	2054.5	2075.2	2040.7
80°	1053.1	1001.3	818.3	783.8	790.7	959.9	1267.2	1567.6	1650.5	1671.2	1595.2
82.5°	573.2	635.3	580.1	545.6	545.6	749.3	1080.8	1246.5	1184.3	984.1	939.2
85°	245.2	296.9	300.4	262.4	252.1	462.7	725.1	680.2	631.9	604.3	597.3
87.5°	69.1	96.7	96.7	72.5	55.2	127.8	145.0	41.4	0.0	3.5	6.9
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)