

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: P454957

Luminaire Tested: **GALN-SA6A-760-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26544 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

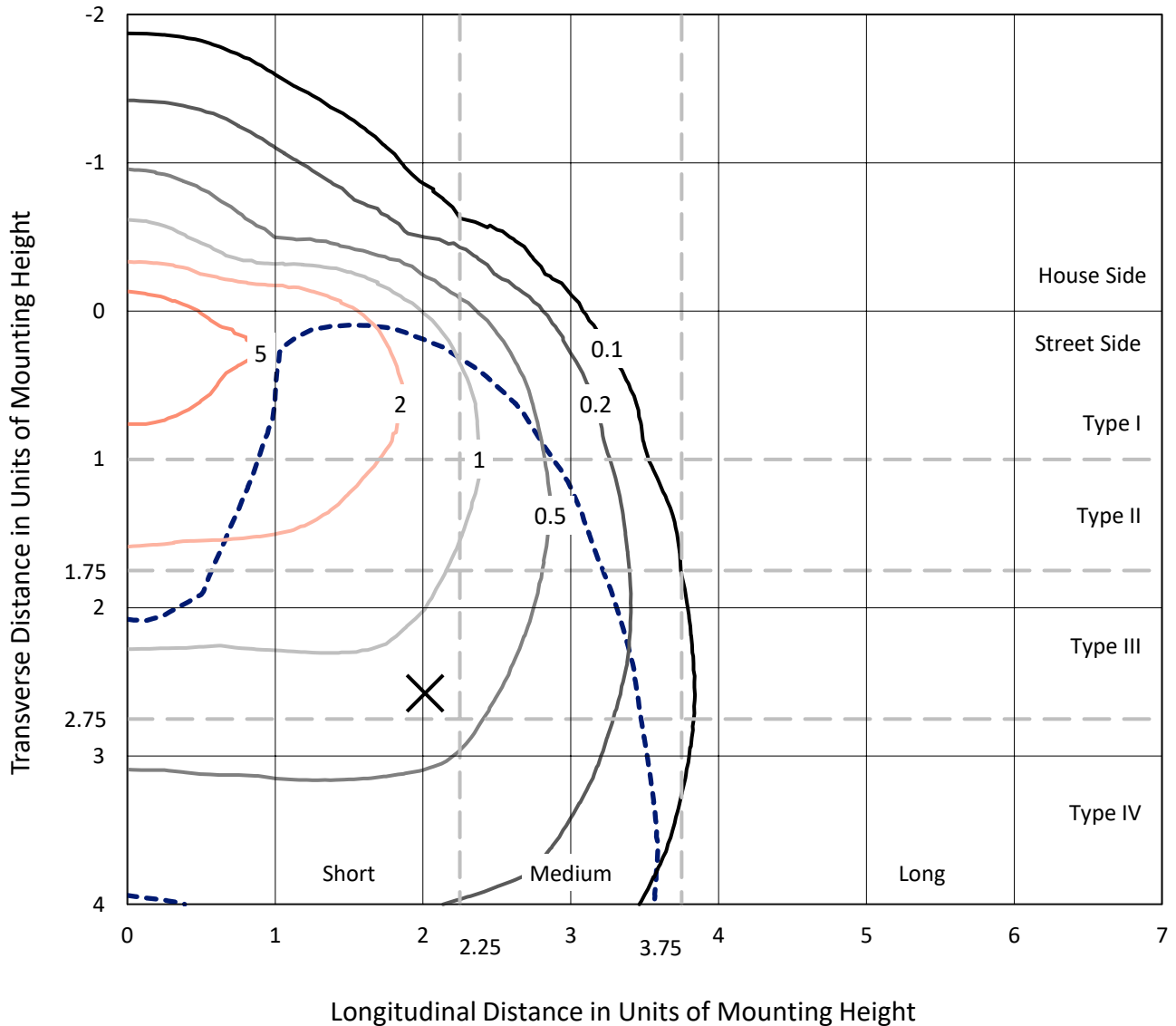
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

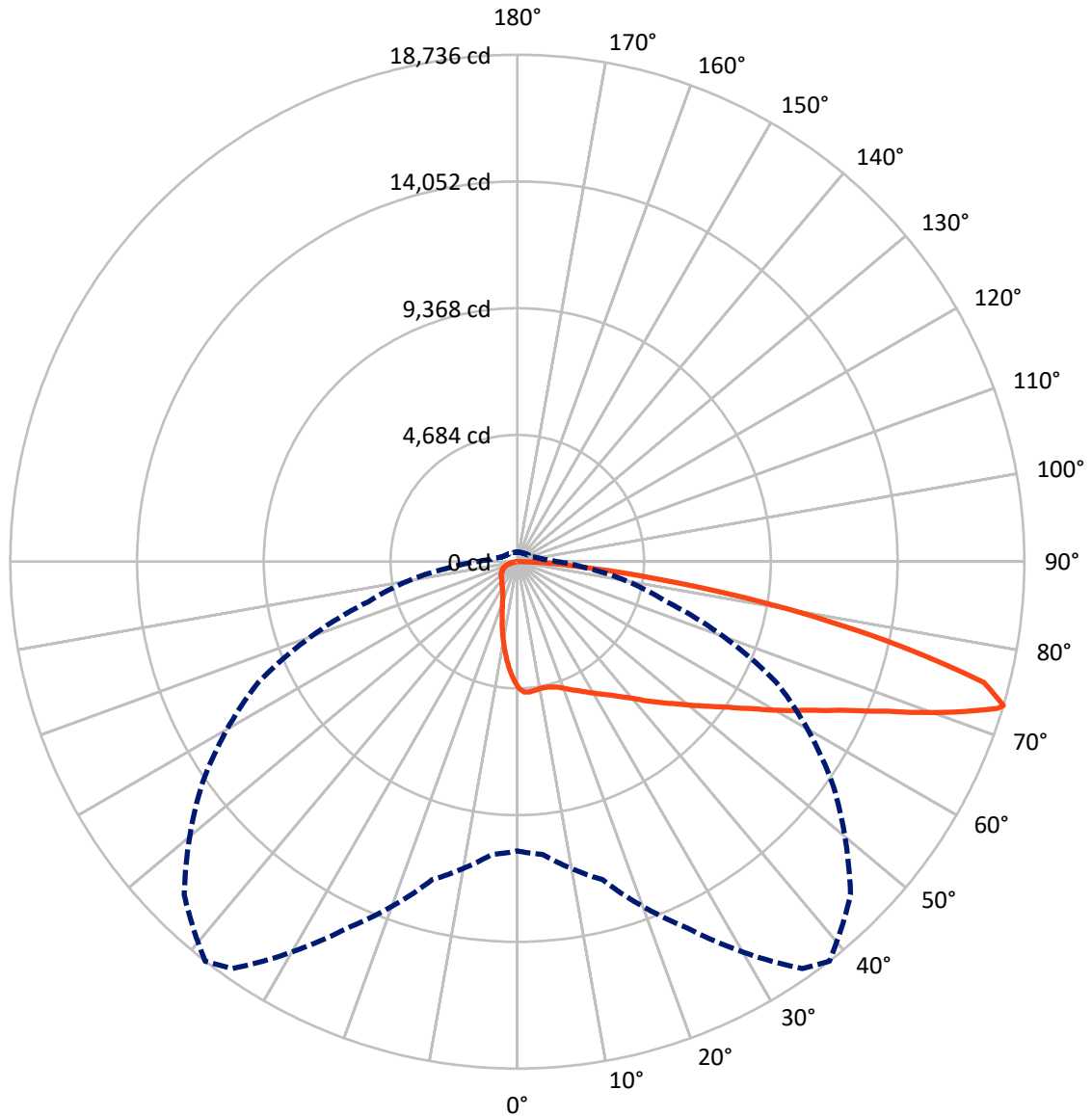
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3568.3	0.0	3568.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22975.7	0.0	22975.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	26544.0	0.0	26544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.5
10°-20°	1043.8	3.9
20°-30°	1625.4	6.1
30°-40°	2384.2	9.0
40°-50°	3536.6	13.3
50°-60°	5010.7	18.9
60°-70°	6356.2	23.9
70°-80°	5291.1	19.9
80°-90°	889.0	3.3
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°	26544.0	100.0
0°-180°	26544.0	100.0

Coefficient of Utilization



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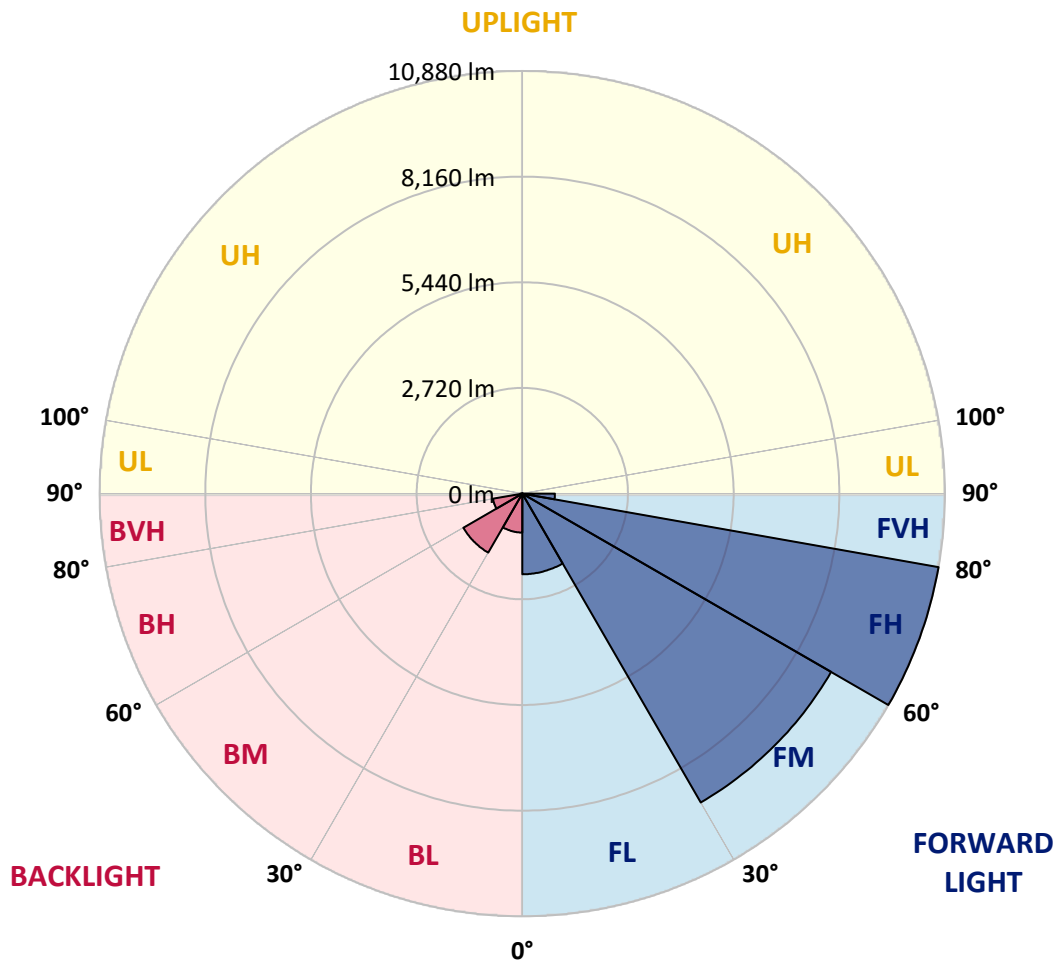
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.0	7.8			
FM (30°-60°)	9179.6	34.6			
FH (60°-80°)	10880.3	41.0			G4/12000
FVH (80°-90°)	840.8	3.2			G5
BL (0°-30°)	1001.3	3.8	B3/2500		
BM (30°-60°)	1751.8	6.6	B2/2500		
BH (60°-80°)	767.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	48.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3
2.5°	4850.7	4874.7	4862.7	4846.2	4835.7	4825.2	4810.2	4766.8	4732.3	4694.8	4636.3
5°	4886.7	4901.7	4891.2	4870.2	4846.2	4835.7	4807.2	4750.3	4694.8	4631.9	4544.9
7.5°	4865.7	4871.7	4859.7	4834.2	4813.2	4793.7	4760.8	4697.8	4630.4	4553.9	4440.0
10°	4790.7	4813.2	4813.2	4792.2	4771.3	4760.8	4727.8	4667.8	4606.4	4519.4	4384.5
12.5°	4729.3	4753.3	4772.8	4766.8	4765.3	4765.3	4739.8	4694.8	4622.9	4540.4	4380.0
15°	4687.3	4715.8	4757.8	4781.8	4796.7	4801.2	4790.7	4751.8	4678.3	4582.4	4398.0
17.5°	4678.3	4712.8	4789.2	4841.7	4880.7	4879.2	4876.2	4822.2	4741.3	4642.3	4420.5
20°	4718.8	4763.8	4870.2	4952.6	5009.6	4999.1	4982.6	4912.2	4817.7	4706.8	4441.5
22.5°	4840.2	4886.7	5003.6	5093.5	5149.0	5149.0	5099.5	5006.6	4906.2	4781.8	4470.0
25°	5014.1	5065.1	5189.5	5280.9	5306.4	5286.9	5237.4	5125.0	5009.6	4889.7	4529.9
27.5°	5226.9	5288.4	5403.8	5480.3	5472.8	5457.8	5406.8	5262.9	5147.5	5038.1	4631.9
30°	5492.3	5537.2	5657.2	5675.1	5648.2	5645.2	5573.2	5429.3	5321.4	5237.4	4777.3
32.5°	5742.6	5783.1	5879.0	5886.5	5838.5	5844.5	5777.1	5645.2	5583.7	5553.7	5021.6
35°	6007.9	6028.9	6111.3	6102.4	6070.9	6066.4	6039.4	5913.5	5933.0	5986.9	5367.9
37.5°	6229.8	6271.7	6318.2	6325.7	6324.2	6339.2	6357.2	6297.2	6409.6	6579.0	5822.0
40°	6433.6	6469.6	6538.6	6562.5	6621.0	6651.0	6712.4	6713.9	6973.3	7252.1	6381.2
42.5°	6571.5	6633.0	6761.9	6805.4	6947.8	7037.7	7129.2	7226.6	7602.8	7961.1	7040.7
45°	6691.5	6772.4	6986.8	7121.7	7315.0	7424.5	7617.8	7821.7	8362.8	8832.0	7710.8
47.5°	6872.8	6944.8	7190.6	7429.0	7721.3	7847.2	8136.5	8440.8	9148.3	9662.4	8352.3
50°	7124.7	7168.1	7418.5	7806.7	8179.9	8341.8	8724.1	9163.3	9987.7	10482.4	8915.9
52.5°	7446.9	7464.9	7664.3	8181.4	8673.1	8874.0	9380.6	9893.3	10722.2	11194.4	9362.6
55°	7827.7	7797.7	7953.6	8578.7	9236.7	9499.0	10043.2	10632.3	11548.2	11770.0	9687.9
57.5°	8203.9	8157.5	8281.9	9061.3	9932.3	10248.5	10882.6	11393.8	12285.7	12308.1	9915.8
60°	8602.7	8568.2	8716.6	9628.0	10785.2	11159.9	11746.0	12183.7	12999.2	12682.9	9951.7
62.5°	9011.9	8956.4	9167.8	10265.0	11746.0	12086.3	12654.4	13023.1	13699.2	12822.3	9605.5
65°	9409.1	9383.6	9710.4	11022.0	12840.3	13227.0	13778.6	14029.0	14259.8	12612.4	8746.6
67.5°	9831.8	9882.8	10404.4	12032.3	14267.3	14753.0	15348.1	15112.7	14420.2	11618.6	7366.0
70°	10476.4	10509.4	11315.8	13355.9	16106.6	16692.7	16980.5	15498.0	13646.7	9731.4	5537.2
72.5°	10753.7	10899.1	12129.8	14745.5	18196.1	18554.4	17529.1	14639.1	11368.3	6610.5	2909.5
73°	10692.2	10866.1	12167.2	14956.8	18359.5	18735.8	17412.2	14196.9	10567.8	5693.1	2494.3
75°	9926.3	10140.6	11680.1	14780.0	18041.7	17816.9	15532.4	12099.8	7141.1	2588.7	1136.2
77.5°	7832.2	7893.6	9254.7	11934.9	14207.3	13790.6	11624.6	7562.4	2917.0	962.3	644.6
80°	3928.8	4155.2	5216.5	6836.9	9500.5	9364.1	7337.5	3576.6	1215.7	565.1	427.2
82.5°	1890.2	2050.6	2540.8	3333.7	5249.4	5125.0	3633.5	1954.7	772.0	329.8	251.8
85°	1217.2	1337.1	1617.4	1590.4	2158.5	2061.1	1632.4	1479.5	457.2	172.4	175.4
87.5°	803.5	879.9	1055.3	843.9	785.5	710.5	721.0	833.4	89.9	66.0	24.0
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°	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3	4663.3
2.5°	4612.4	4592.9	4528.4	4465.5	4405.5	4348.5	4311.1	4261.6	4228.6	4237.6	4251.1
5°	4496.9	4453.5	4339.6	4228.6	4123.7	3999.3	3898.9	3817.9	3756.4	3734.0	3729.5
7.5°	4375.5	4302.1	4138.7	3948.3	3769.9	3615.5	3437.2	3348.7	3245.3	3209.3	3197.3
10°	4302.1	4203.1	3973.8	3708.5	3440.2	3183.8	2990.5	2833.1	2690.7	2663.7	2650.2
12.5°	4281.1	4150.7	3841.9	3500.1	3143.4	2828.6	2542.3	2335.4	2197.5	2166.0	2119.6
15°	4269.1	4107.2	3719.0	3290.3	2837.6	2453.8	2152.5	1911.2	1785.3	1701.3	1702.8
17.5°	4258.6	4057.7	3581.1	3060.9	2573.8	2131.6	1798.8	1581.4	1466.0	1421.0	1416.5
20°	4243.6	3999.3	3422.2	2819.6	2272.5	1837.8	1536.5	1374.6	1296.6	1259.1	1257.6
22.5°	4237.6	3942.3	3266.3	2573.8	2005.6	1611.4	1362.6	1248.7	1199.2	1173.7	1173.7
25°	4252.6	3901.8	3102.9	2339.9	1768.8	1418.0	1242.7	1164.7	1136.2	1122.7	1118.2
27.5°	4299.1	3883.9	2941.0	2106.1	1551.4	1286.1	1161.7	1107.7	1086.8	1076.3	1077.8
30°	4387.5	3882.4	2782.1	1875.2	1389.6	1185.7	1097.3	1059.8	1043.3	1037.3	1035.8
32.5°	4529.9	3915.3	2626.2	1684.9	1253.1	1101.8	1037.3	1010.3	1002.8	998.3	996.8
35°	4771.3	4008.3	2471.8	1511.0	1148.2	1026.8	980.3	966.8	956.4	960.8	962.3
37.5°	5096.5	4168.7	2324.9	1374.6	1068.8	971.3	932.4	920.4	914.4	918.9	923.4
40°	5532.7	4399.5	2202.0	1265.1	1011.8	924.9	890.4	879.9	873.9	881.4	882.9
42.5°	6013.9	4666.3	2100.1	1179.7	965.3	885.9	852.9	840.9	836.4	840.9	842.4
45°	6508.6	4976.6	2047.6	1118.2	926.4	857.4	822.9	809.4	799.0	796.0	800.5
47.5°	6995.7	5246.4	2046.1	1080.8	894.9	831.9	794.5	779.5	766.0	758.5	757.0
50°	7393.0	5460.8	2082.1	1064.3	867.9	803.5	766.0	751.0	733.0	718.0	721.0
52.5°	7692.8	5600.2	2098.6	1056.8	852.9	773.5	736.0	722.5	701.5	682.0	682.0
55°	7886.1	5633.2	2058.1	1049.3	840.9	742.0	701.5	689.5	668.5	649.1	649.1
57.5°	7952.1	5531.2	1912.7	1031.3	828.9	715.0	667.0	656.6	640.1	620.6	617.6
60°	7799.2	5186.5	1657.9	977.3	805.0	686.5	629.6	625.1	619.1	602.6	601.1
62.5°	7210.1	4455.0	1380.6	906.9	764.5	656.6	595.1	602.6	607.1	598.1	596.6
65°	6229.8	3617.0	1179.7	809.4	710.5	614.6	557.6	577.1	589.1	589.1	586.1
67.5°	5053.1	2777.6	993.8	725.5	643.1	557.6	515.6	530.6	539.6	536.6	544.1
70°	3591.6	1881.2	809.4	629.6	557.6	493.2	461.7	461.7	455.7	452.7	452.7
72.5°	1741.8	1074.8	656.6	526.1	475.2	421.2	395.7	385.2	373.2	371.7	364.3
73°	1455.5	963.8	626.6	506.7	455.7	410.7	382.2	365.8	358.3	352.3	350.8
75°	885.9	731.5	523.1	427.2	388.2	353.8	328.3	313.3	305.8	301.3	299.8
77.5°	583.1	545.6	406.2	326.8	296.8	275.8	265.3	250.3	245.8	239.8	239.8
80°	434.7	416.7	290.8	230.8	212.9	194.9	191.9	188.9	176.9	169.4	166.4
82.5°	280.3	296.8	197.9	154.4	134.9	119.9	121.4	125.9	113.9	103.4	100.4
85°	199.4	214.4	119.9	70.5	57.0	49.5	55.5	49.5	51.0	40.5	33.0
87.5°	33.0	57.0	21.0	9.0	4.5	3.0	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)