

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: P458955

Luminaire Tested: **GALN-SA4D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28456 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

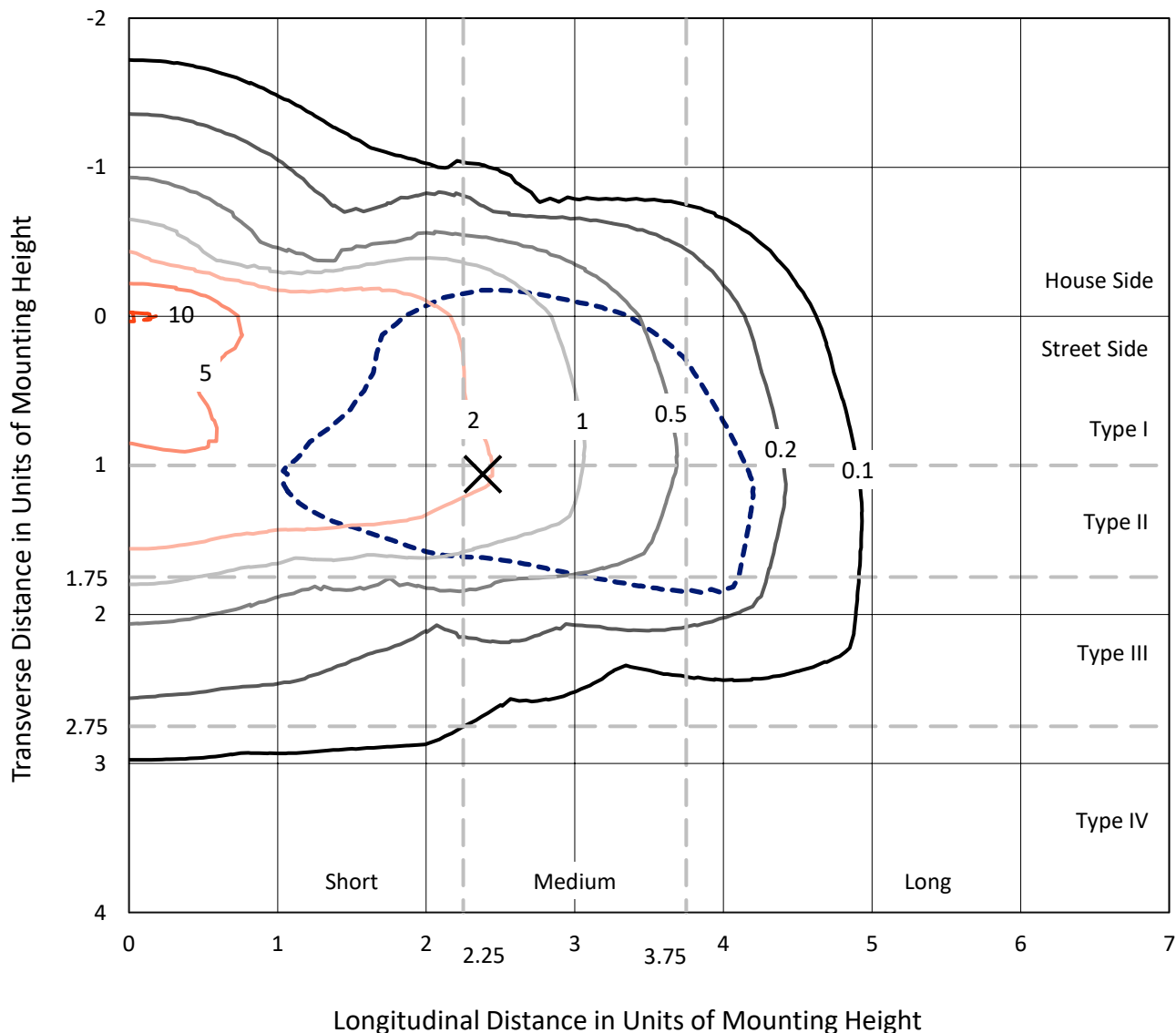
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

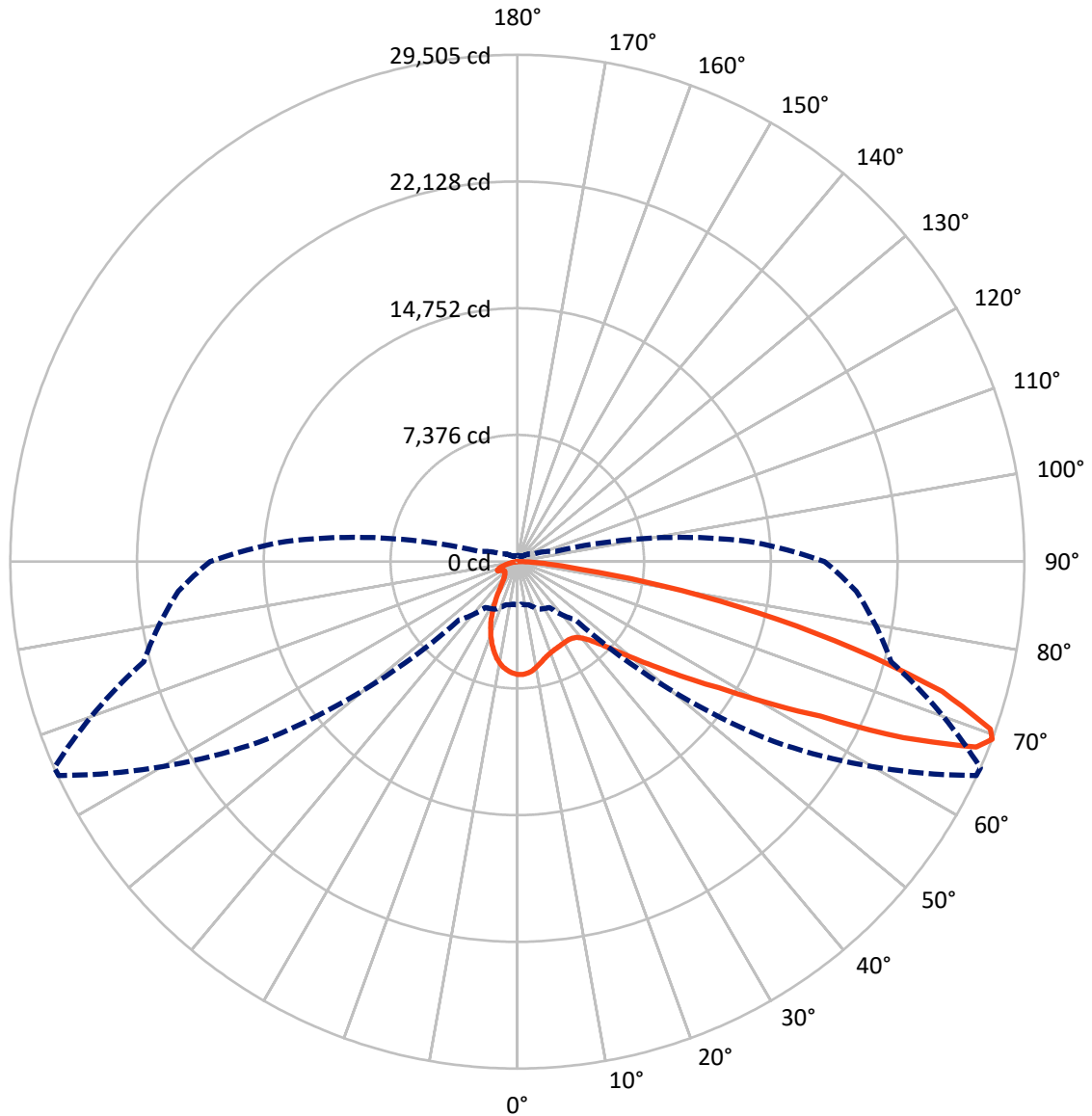
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5351.5	0.0	5351.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23104.5	0.0	23104.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	28456.0	0.0	28456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.6	2.0
10°-20°	1353.5	4.8
20°-30°	1842.6	6.5
30°-40°	2476.1	8.7
40°-50°	3697.2	13.0
50°-60°	5881.1	20.7
60°-70°	7233.4	25.4
70°-80°	4706.4	16.5
80°-90°	695.0	2.4
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°	28456.0	100.0
0°-180°	28456.0	100.0

Coefficient of Utilization



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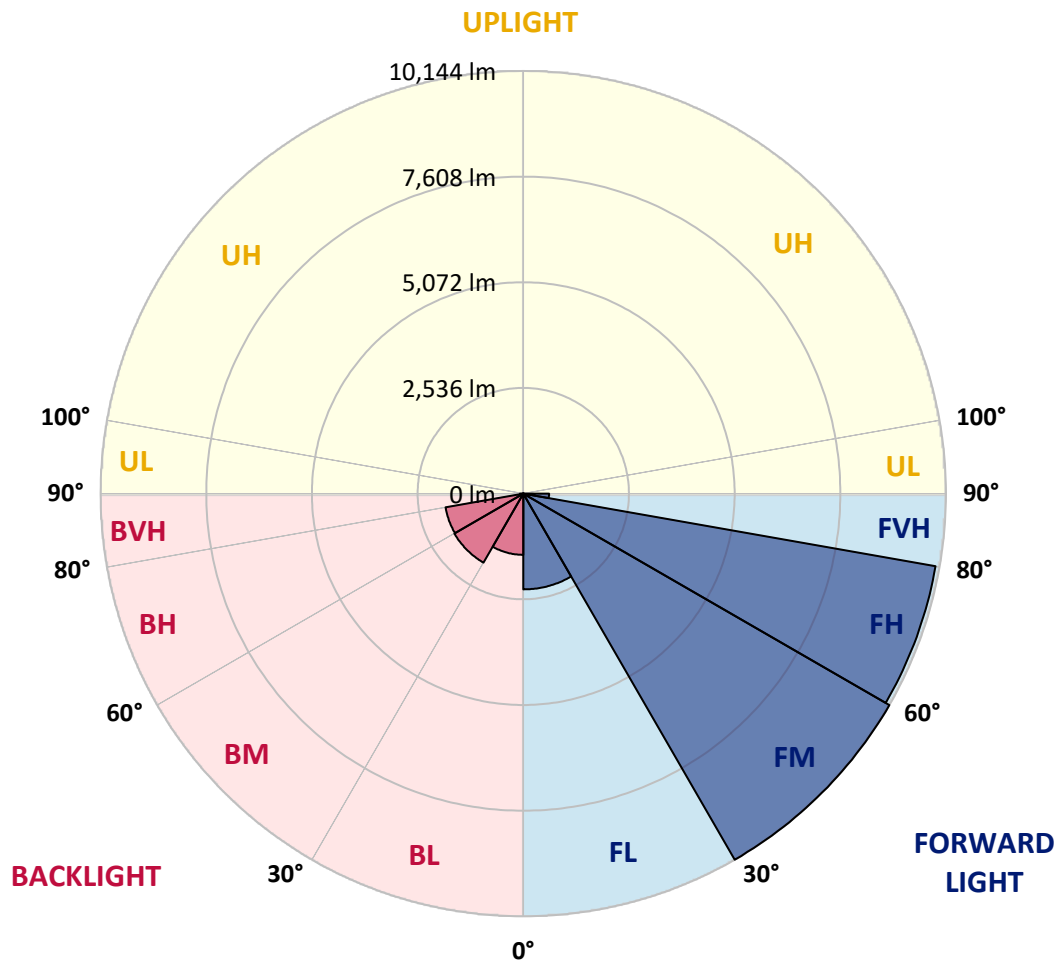
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2297.8	8.1			
FM	(30°-60°)	10143.7	35.6			
FH	(60°-80°)	10045.1	35.3			G4/12000
FVH	(80°-90°)	617.9	2.2			G4/750
BL	(0°-30°)	1469.0	5.2	B3/2500		
BM	(30°-60°)	1910.7	6.7	B2/2500		
BH	(60°-80°)	1894.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	77.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3
2.5°	6341.2	6366.4	6394.8	6426.3	6486.2	6519.3	6542.9	6569.7	6572.9	6587.0	6576.0
5°	5873.2	5903.1	5945.7	6005.6	6095.4	6235.6	6380.6	6498.8	6513.0	6579.2	6598.1
7.5°	5482.4	5499.7	5534.4	5630.5	5758.1	5914.2	6125.3	6364.8	6399.5	6557.1	6612.3
10°	5164.0	5181.4	5222.4	5321.6	5447.7	5643.1	5874.8	6189.9	6218.3	6489.3	6615.4
12.5°	4926.1	4941.9	4986.0	5083.7	5228.7	5411.5	5666.7	6000.8	6041.8	6399.5	6585.5
15°	4744.9	4774.8	4811.1	4891.4	5044.3	5220.8	5468.2	5827.5	5860.6	6305.0	6565.0
17.5°	4667.7	4681.8	4707.1	4781.1	4893.0	5066.3	5315.3	5692.0	5731.4	6238.8	6560.3
20°	4670.8	4685.0	4689.7	4730.7	4811.1	4960.8	5206.6	5584.8	5632.1	6180.5	6568.1
22.5°	4778.0	4779.5	4762.2	4748.0	4779.5	4904.0	5129.4	5504.4	5559.6	6155.3	6574.4
25°	4943.4	4971.8	4946.6	4880.4	4822.1	4882.0	5099.4	5460.3	5512.3	6119.0	6566.6
27.5°	5211.3	5216.1	5195.6	5105.7	4954.5	4910.3	5086.8	5427.2	5471.3	6092.2	6527.2
30°	5570.6	5556.4	5537.5	5438.2	5200.3	5019.1	5113.6	5397.3	5443.0	6052.8	6479.9
32.5°	5934.6	5978.8	5961.4	5844.8	5535.9	5230.2	5200.3	5394.1	5431.9	6022.9	6427.9
35°	6320.7	6341.2	6423.2	6363.3	6046.5	5572.2	5362.6	5443.0	5472.9	6024.5	6391.6
37.5°	6623.3	6678.4	6870.7	6922.7	6624.9	6024.5	5625.8	5581.6	5594.3	6101.7	6405.8
40°	6988.9	7083.4	7330.8	7543.6	7348.2	6612.3	6073.3	5838.5	5854.3	6287.6	6498.8
42.5°	7452.2	7518.4	7850.9	8139.2	8107.7	7389.1	6615.4	6259.3	6267.1	6658.0	6758.8
45°	7994.3	8088.8	8462.3	8895.7	8969.7	8268.5	7398.6	6895.9	6891.2	7233.1	7244.2
47.5°	8687.6	8745.9	9116.3	9589.0	9888.4	9373.1	8348.8	7809.9	7759.5	8071.5	7981.7
50°	9325.9	9417.3	9697.8	10214.6	10960.0	10666.9	9598.5	8994.9	8876.7	9168.3	9017.0
52.5°	9593.8	9689.9	9926.3	10567.6	11878.7	12340.5	11185.4	10408.5	10211.5	10435.3	10380.1
55°	9128.9	9253.4	9474.0	10254.0	12282.1	14270.9	13325.4	12042.6	11899.2	11803.1	11818.9
57.5°	7879.2	7997.4	8295.3	9155.7	11799.9	15671.8	16380.9	14143.2	13835.9	13393.1	13468.8
60°	5997.7	6071.7	6226.2	7179.6	10370.6	16035.8	19850.9	16798.5	16603.1	14976.8	15030.4
62.5°	4259.5	4343.0	4450.2	4926.1	7592.4	15009.9	22567.7	20506.5	19808.4	16617.3	16565.3
65°	3459.0	3402.3	3531.5	3753.7	4454.9	11632.9	23179.1	25653.2	24691.9	18777.8	18056.1
67.5°	2844.4	2784.5	2912.2	3307.7	3388.1	6752.5	20976.1	28994.0	28801.8	21127.4	19570.4
69°	2518.2	2486.7	2598.6	3049.3	3252.5	4795.3	18273.5	29458.9	29504.6	22512.5	19803.7
70°	2269.2	2281.8	2390.6	2918.5	3191.1	3953.8	15618.2	28817.5	29205.2	23204.3	19551.5
72.5°	1670.4	1697.2	1848.5	2417.3	3132.8	3355.0	9294.3	25171.0	25856.5	23245.3	17885.9
75°	1167.7	1155.1	1289.0	1820.1	2959.4	3325.0	5458.7	19466.4	20243.3	20092.0	15028.9
77.5°	764.3	784.8	891.9	1285.9	2489.8	3299.8	3558.3	13810.7	14315.0	13437.2	8889.4
80°	538.9	537.4	597.2	877.7	1846.9	3170.6	2913.7	8705.0	8577.3	5280.7	2636.4
82.5°	308.9	330.9	400.3	617.7	1235.5	2790.8	2680.5	4163.4	3800.9	1504.9	890.4
85°	171.8	179.6	238.0	373.5	721.7	2102.2	2340.1	1894.2	1787.0	628.8	382.9
87.5°	55.2	59.9	99.3	189.1	327.8	992.8	1325.3	874.6	806.8	226.9	154.4
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°	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3	6571.3
2.5°	6580.7	6599.6	6549.2	6500.4	6456.2	6394.8	6339.6	6293.9	6262.4	6257.7	6241.9
5°	6602.8	6604.4	6508.2	6379.0	6253.0	6114.3	5970.9	5868.5	5772.3	5718.7	5692.0
7.5°	6618.6	6604.4	6431.0	6221.4	5978.8	5726.6	5474.5	5272.8	5116.8	5055.3	5079.0
10°	6612.3	6568.1	6314.4	5978.8	5625.8	5249.1	4886.7	4603.0	4343.0	4209.1	4212.2
12.5°	6577.6	6505.1	6141.1	5706.1	5187.7	4683.4	4128.7	3745.8	3444.8	3266.7	3211.6
15°	6547.6	6421.6	5937.8	5335.8	4691.3	3971.1	3295.1	2822.3	2570.2	2430.0	2428.4
17.5°	6516.1	6341.2	5715.6	4943.4	4120.8	3194.2	2485.1	2124.2	2006.1	2020.2	1996.6
20°	6483.0	6246.7	5483.9	4506.9	3425.9	2382.7	1861.1	1714.5	1747.6	1812.2	1821.7
22.5°	6445.2	6145.8	5235.0	4026.3	2694.7	1793.3	1509.7	1487.6	1572.7	1673.5	1687.7
25°	6386.9	6019.7	4921.4	3523.6	2078.5	1445.1	1322.1	1337.9	1421.4	1506.5	1516.0
27.5°	6305.0	5863.7	4604.6	2896.4	1561.7	1240.2	1208.7	1229.2	1270.1	1322.1	1334.7
30°	6194.7	5687.2	4240.6	2354.3	1251.2	1137.8	1125.2	1136.2	1159.8	1181.9	1188.2
32.5°	6084.3	5517.0	3873.4	1802.8	1115.7	1070.0	1057.4	1057.4	1057.4	1060.5	1062.1
35°	5981.9	5356.3	3479.5	1404.1	1044.8	1016.4	999.1	980.2	977.0	966.0	966.0
37.5°	5925.2	5209.7	3060.3	1175.6	992.8	972.3	948.7	917.1	899.8	901.4	898.2
40°	5936.2	5113.6	2678.9	1046.4	950.2	928.2	891.9	855.7	844.7	844.7	841.5
42.5°	6060.7	5082.1	2313.3	978.6	909.3	884.1	838.4	805.3	799.0	797.4	800.5
45°	6347.5	5159.3	1985.6	934.5	874.6	836.8	791.1	761.1	754.8	754.8	753.3
47.5°	6906.9	5409.9	1750.8	906.1	849.4	800.5	753.3	723.3	712.3	709.1	709.1
50°	7776.8	5953.5	1575.8	880.9	817.9	767.4	718.6	683.9	666.6	665.0	663.4
52.5°	8985.5	6801.4	1508.1	862.0	783.2	732.8	679.2	646.1	624.0	619.3	616.2
55°	10399.0	7984.8	1601.1	847.8	747.0	693.4	638.2	603.5	583.1	573.6	572.0
57.5°	12036.3	9406.2	1954.1	828.9	713.9	650.8	597.2	562.6	540.5	529.5	526.3
60°	13506.6	10867.0	2570.2	817.9	685.5	605.1	550.0	518.5	498.0	486.9	485.4
62.5°	15121.8	12260.1	3306.1	847.8	672.9	561.0	505.8	477.5	460.1	449.1	449.1
65°	16847.4	13654.7	3793.1	948.7	691.8	526.3	458.6	434.9	419.2	411.3	409.7
67.5°	18010.4	14136.9	3124.9	1052.7	739.1	488.5	412.9	394.0	384.5	376.6	376.6
69°	17884.3	13527.1	2305.5	1079.5	753.3	469.6	387.7	373.5	360.9	357.7	354.6
70°	17485.6	12832.1	1932.0	1062.1	742.2	452.3	371.9	354.6	343.5	340.4	338.8
72.5°	15574.1	11128.6	1438.7	923.4	631.9	392.4	329.4	313.6	304.1	299.4	299.4
75°	12939.3	9095.8	1123.6	734.3	494.8	330.9	282.1	269.5	261.6	258.4	256.9
77.5°	7252.0	5079.0	806.8	575.2	375.1	267.9	236.4	225.3	217.5	214.3	214.3
80°	2020.2	1451.4	474.3	379.8	255.3	203.3	187.5	179.6	168.6	160.7	165.5
82.5°	761.1	628.8	271.0	228.5	162.3	135.5	130.8	124.5	119.8	108.7	108.7
85°	370.3	305.7	173.3	121.3	89.8	70.9	67.8	64.6	61.5	53.6	55.2
87.5°	127.6	135.5	75.6	44.1	26.8	17.3	14.2	7.9	7.9	7.9	7.9
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)