

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: P652387

Luminaire Tested: **GALN-SA5B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652387
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-SA5B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 23921.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

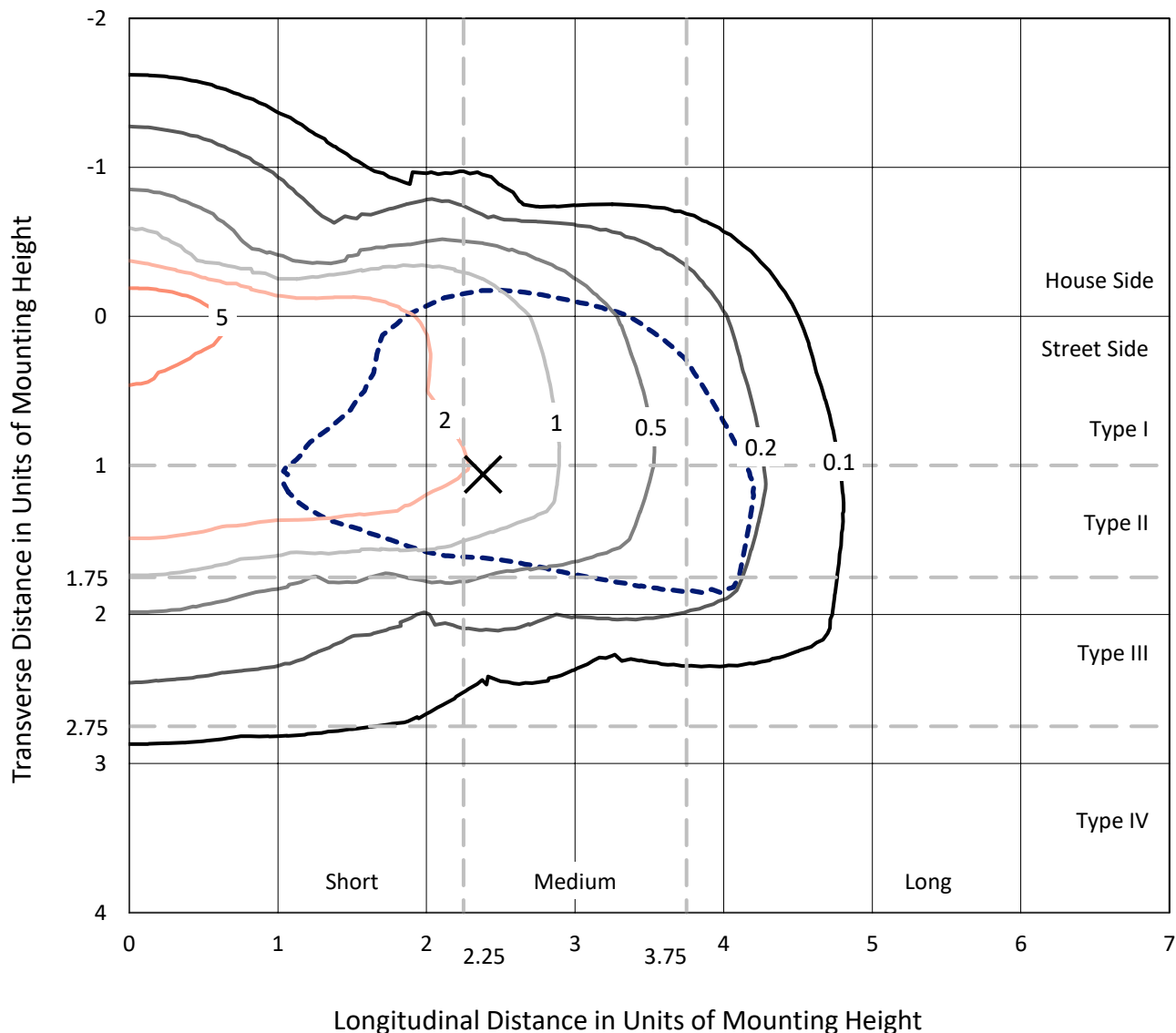
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

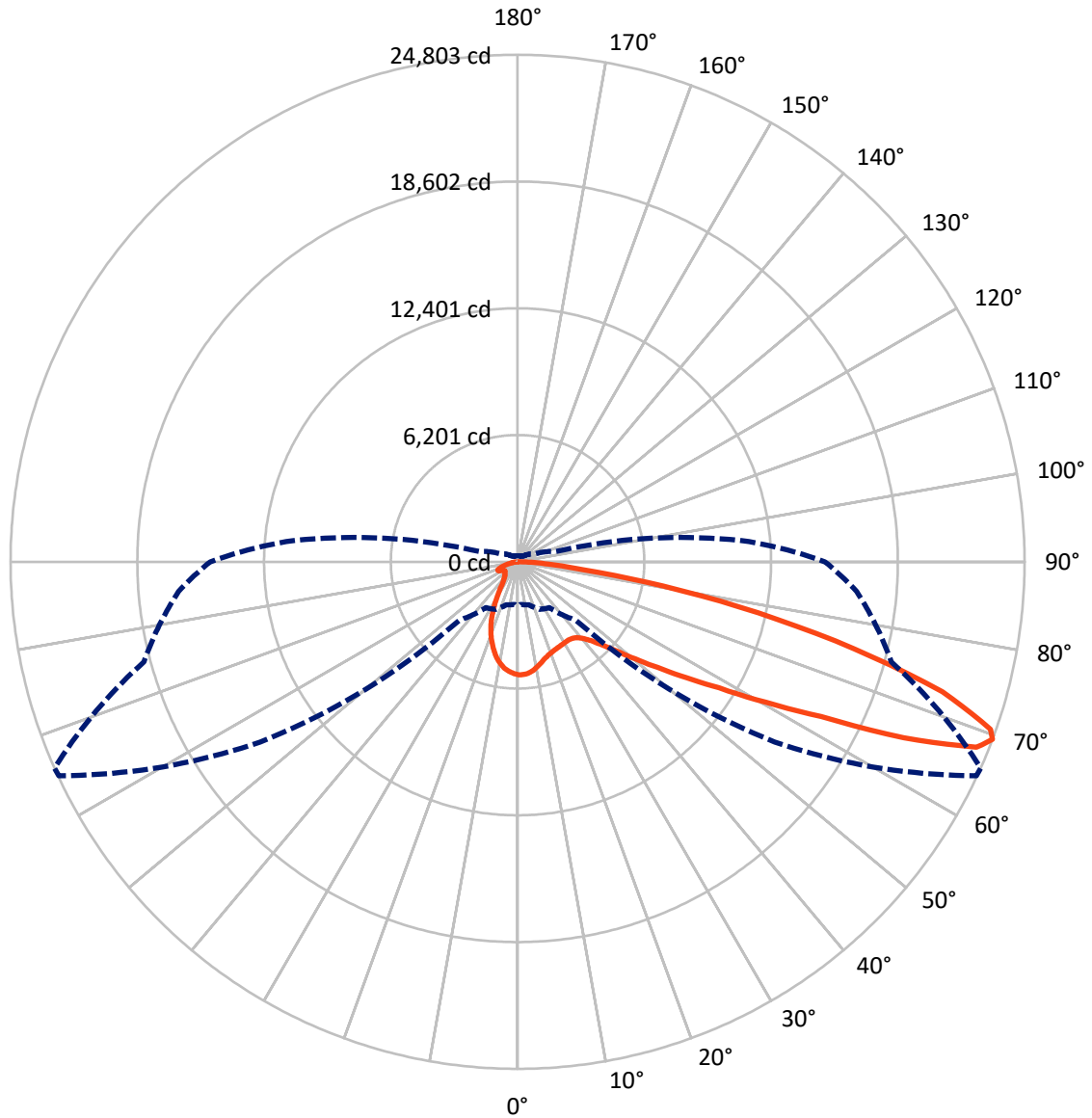
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4498.7	0.0	4498.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19422.7	0.0	19422.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	23921.4	0.0	23921.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	2.0
10°-20°	1137.8	4.8
20°-30°	1549.0	6.5
30°-40°	2081.5	8.7
40°-50°	3108.1	13.0
50°-60°	4943.9	20.7
60°-70°	6080.7	25.4
70°-80°	3956.4	16.5
80°-90°	584.2	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°	23921.4	100.0
0°-180°	23921.4	100.0

Coefficient of Utilization

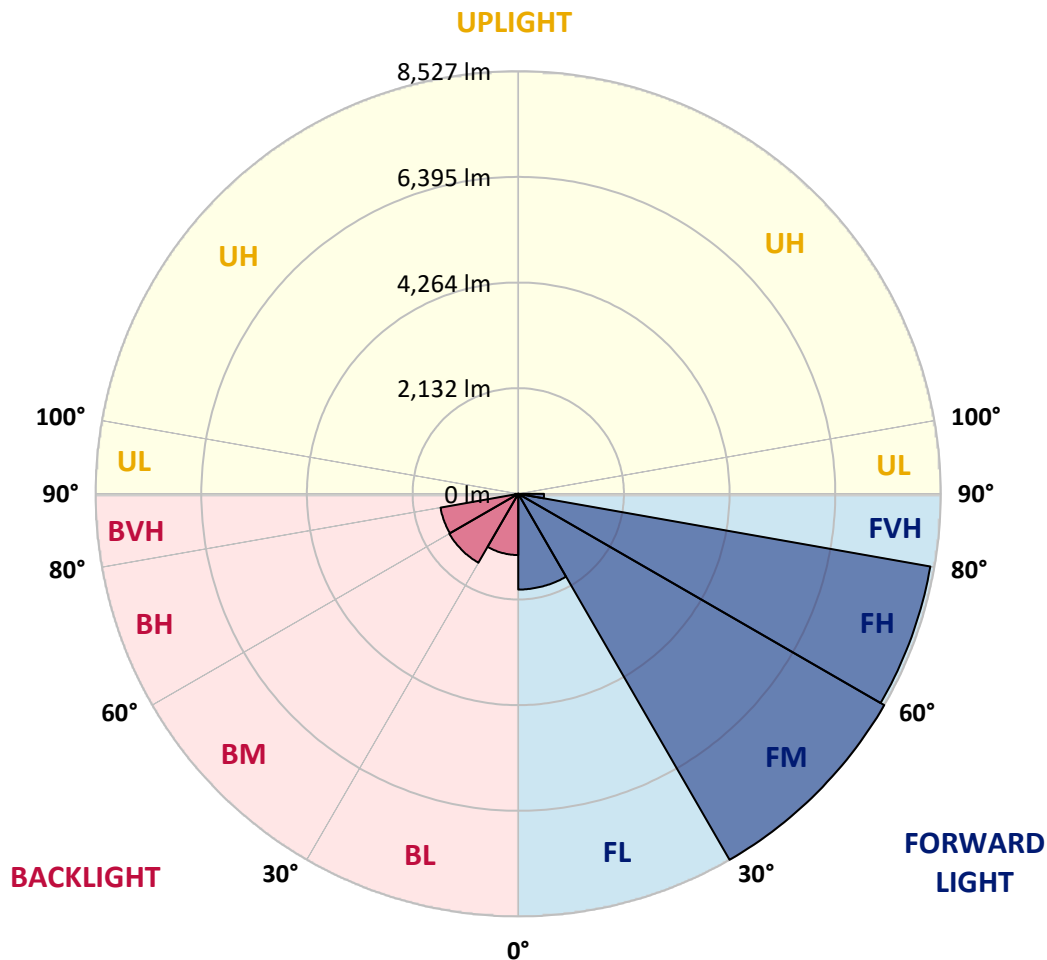


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.6	8.1			
FM (30°-60°)	8527.3	35.6			
FH (60°-80°)	8444.4	35.3			G4/12000
FVH (80°-90°)	519.4	2.2			G4/750
BL (0°-30°)	1234.9	5.2	B3/2500		
BM (30°-60°)	1606.2	6.7	B2/2500		
BH (60°-80°)	1592.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	64.8	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°	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1
2.5°	5330.7	5351.9	5375.8	5402.2	5452.6	5480.4	5500.3	5522.8	5525.5	5537.4	5528.1
5°	4937.3	4962.4	4998.2	5048.5	5124.0	5242.0	5363.8	5463.2	5475.1	5530.8	5546.6
7.5°	4608.8	4623.3	4652.4	4733.2	4840.5	4971.7	5149.2	5350.6	5379.7	5512.2	5558.6
10°	4341.2	4355.7	4390.2	4473.6	4579.6	4743.8	4938.6	5203.5	5227.4	5455.2	5561.2
12.5°	4141.1	4154.4	4191.5	4273.5	4395.5	4549.1	4763.8	5044.6	5079.0	5379.7	5536.1
15°	3988.8	4013.9	4044.4	4112.0	4240.5	4388.8	4596.8	4898.8	4926.7	5300.2	5518.8
17.5°	3923.9	3935.8	3957.0	4019.2	4113.2	4259.0	4468.3	4785.0	4818.0	5244.6	5514.9
20°	3926.5	3938.4	3942.4	3976.8	4044.4	4170.3	4376.9	4694.8	4734.6	5195.6	5521.5
22.5°	4016.6	4017.9	4003.3	3991.4	4017.9	4122.6	4312.0	4627.3	4673.6	5174.4	5526.8
25°	4155.6	4179.5	4158.3	4102.7	4053.7	4104.0	4286.8	4590.2	4633.9	5143.9	5520.2
27.5°	4380.9	4384.9	4367.6	4292.1	4165.0	4127.9	4276.2	4562.3	4599.4	5121.4	5487.0
30°	4682.9	4671.0	4655.1	4571.7	4371.6	4219.3	4298.8	4537.2	4575.6	5088.3	5447.2
32.5°	4988.9	5026.0	5011.4	4913.5	4653.8	4396.7	4371.6	4534.5	4566.4	5063.1	5403.6
35°	5313.5	5330.7	5399.6	5349.3	5083.0	4684.2	4508.0	4575.6	4600.8	5064.4	5373.1
37.5°	5567.8	5614.2	5775.8	5819.6	5569.2	5064.4	4729.3	4692.2	4702.8	5129.3	5385.0
40°	5875.1	5954.6	6162.6	6341.5	6177.2	5558.6	5105.5	4908.2	4921.4	5285.7	5463.2
42.5°	6264.6	6320.3	6599.8	6842.2	6815.7	6211.6	5561.2	5261.8	5268.4	5596.9	5681.8
45°	6720.3	6799.8	7113.8	7478.1	7540.3	6950.9	6219.6	5797.0	5793.1	6080.5	6089.8
47.5°	7303.2	7352.3	7663.5	8061.0	8312.7	7879.5	7018.4	6565.4	6523.0	6785.3	6709.8
50°	7839.7	7916.6	8152.4	8586.9	9213.5	8967.1	8068.9	7561.5	7462.2	7707.3	7580.1
52.5°	8064.9	8145.8	8344.5	8883.7	9985.8	10374.0	9402.9	8749.8	8584.3	8772.4	8726.0
55°	7674.1	7778.8	7964.3	8620.0	10325.0	11996.8	11201.9	10123.5	10003.0	9922.2	9935.5
57.5°	6623.6	6723.0	6973.4	7696.7	9919.6	13174.4	13770.5	11889.5	11631.1	11258.9	11322.5
60°	5041.9	5104.2	5234.0	6035.4	8718.1	13480.5	16687.6	14121.6	13957.3	12590.2	12635.3
62.5°	3580.7	3650.9	3741.0	4141.1	6382.5	12618.0	18971.4	17238.6	16651.8	13969.3	13925.5
65°	2907.8	2860.1	2968.7	3155.5	3745.0	9779.1	19485.5	21565.3	20757.1	15785.5	15178.7
67.5°	2391.1	2340.8	2448.1	2780.6	2848.1	5676.5	17633.5	24373.7	24212.1	17760.7	16451.8
69°	2116.9	2090.4	2184.5	2563.4	2734.3	4031.2	15361.5	24764.5	24802.9	18925.1	16647.8
70°	1907.6	1918.2	2009.7	2453.4	2682.5	3323.7	13129.4	24225.3	24551.2	19506.7	16435.9
72.5°	1404.2	1426.8	1553.9	2032.1	2633.6	2820.4	7813.2	21159.9	21736.1	19541.1	15035.7
75°	981.6	971.0	1083.6	1530.0	2487.8	2795.1	4588.8	16364.3	17017.5	16890.3	12633.9
77.5°	642.5	659.7	749.8	1080.9	2093.1	2774.0	2991.3	11609.9	12033.9	11296.0	7472.8
80°	453.0	451.7	502.1	737.9	1552.6	2665.4	2449.4	7317.8	7210.5	4439.1	2216.3
82.5°	259.6	278.2	336.5	519.3	1038.6	2346.1	2253.4	3499.9	3195.2	1265.1	748.5
85°	144.4	151.0	200.1	313.9	606.7	1767.2	1967.2	1592.3	1502.3	528.6	321.9
87.5°	46.3	50.4	83.4	158.9	275.5	834.6	1114.1	735.2	678.3	190.7	129.9
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°	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1	5524.1
2.5°	5532.1	5548.0	5505.6	5464.5	5427.4	5375.8	5329.4	5291.0	5264.5	5260.5	5247.3
5°	5550.6	5551.9	5471.1	5362.5	5256.5	5139.9	5019.4	4933.3	4852.5	4807.4	4785.0
7.5°	5563.9	5551.9	5406.2	5230.0	5026.0	4814.1	4602.1	4432.6	4301.4	4249.7	4269.6
10°	5558.6	5521.5	5308.2	5026.0	4729.3	4412.6	4107.9	3869.5	3650.9	3538.3	3541.0
12.5°	5529.4	5468.5	5162.5	4796.8	4361.0	3937.1	3470.8	3148.9	2895.8	2746.2	2699.8
15°	5504.3	5398.3	4991.6	4485.6	3943.7	3338.3	2770.0	2372.6	2160.6	2042.7	2041.4
17.5°	5477.8	5330.7	4804.8	4155.6	3464.2	2685.2	2089.1	1785.7	1686.4	1698.3	1678.5
20°	5449.9	5251.2	4610.0	3788.7	2879.9	2003.0	1564.5	1441.3	1469.1	1523.5	1531.4
22.5°	5418.1	5166.4	4400.8	3384.7	2265.3	1507.6	1269.1	1250.6	1322.1	1406.8	1418.8
25°	5369.1	5060.5	4137.1	2962.1	1747.3	1214.7	1111.5	1124.7	1194.9	1266.5	1274.4
27.5°	5300.2	4929.4	3870.9	2434.9	1312.8	1042.6	1016.1	1033.3	1067.7	1111.5	1122.1
30°	5207.5	4780.9	3564.8	1979.1	1051.8	956.5	945.9	955.1	975.0	993.6	998.9
32.5°	5114.8	4637.9	3256.2	1515.5	937.9	899.4	888.9	888.9	888.9	891.5	892.9
35°	5028.7	4502.7	2925.0	1180.3	878.3	854.5	839.9	824.0	821.3	812.1	812.1
37.5°	4981.0	4379.6	2572.6	988.3	834.6	817.4	797.5	771.0	756.4	757.7	755.1
40°	4990.2	4298.8	2252.0	879.6	798.8	780.3	749.8	719.3	710.1	710.1	707.4
42.5°	5094.9	4272.3	1944.7	822.7	764.4	743.2	704.8	676.9	671.6	670.3	673.0
45°	5336.0	4337.1	1669.1	785.6	735.2	703.4	665.0	639.8	634.5	634.5	633.2
47.5°	5806.3	4547.8	1471.8	761.7	714.0	673.0	633.2	608.0	598.8	596.1	596.1
50°	6537.5	5004.8	1324.7	740.5	687.5	645.1	604.1	574.9	560.4	559.0	557.8
52.5°	7553.6	5717.5	1267.7	724.6	658.4	616.0	571.0	543.1	524.6	520.6	518.0
55°	8741.9	6712.4	1345.9	712.7	627.9	582.9	536.5	507.4	490.1	482.2	480.9
57.5°	10118.2	7907.3	1642.6	696.8	600.1	547.2	502.1	472.9	454.4	445.1	442.5
60°	11354.3	9135.4	2160.6	687.5	576.3	508.7	462.3	435.8	418.6	409.3	408.1
62.5°	12712.1	10306.4	2779.3	712.7	565.7	471.6	425.2	401.4	386.9	377.5	377.5
65°	14162.7	11478.8	3188.7	797.5	581.6	442.5	385.5	365.7	352.4	345.7	344.4
67.5°	15140.4	11884.2	2626.9	884.9	621.3	410.7	347.1	331.2	323.2	316.6	316.6
69°	15034.3	11371.5	1938.1	907.4	633.2	394.8	325.9	313.9	303.3	300.7	298.1
70°	14699.2	10787.3	1624.1	892.9	623.9	380.2	312.6	298.1	288.8	286.1	284.8
72.5°	13092.3	9355.2	1209.4	776.3	531.2	329.8	276.9	263.7	255.7	251.7	251.7
75°	10877.3	7646.4	944.5	617.3	416.0	278.2	237.2	226.6	219.9	217.2	216.0
77.5°	6096.4	4269.6	678.3	483.5	315.3	225.2	198.7	189.5	182.8	180.1	180.1
80°	1698.3	1220.0	398.7	319.2	214.6	170.9	157.6	151.0	141.7	135.1	139.1
82.5°	639.8	528.6	227.8	192.1	136.4	114.0	109.9	104.6	100.7	91.4	91.4
85°	311.3	257.0	145.7	102.0	75.5	59.6	56.9	54.3	51.6	45.1	46.3
87.5°	107.3	114.0	63.6	37.1	22.5	14.5	11.9	6.6	6.6	6.6	6.6
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)