

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: P531021

Luminaire Tested: **GALN-SA6B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18542 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

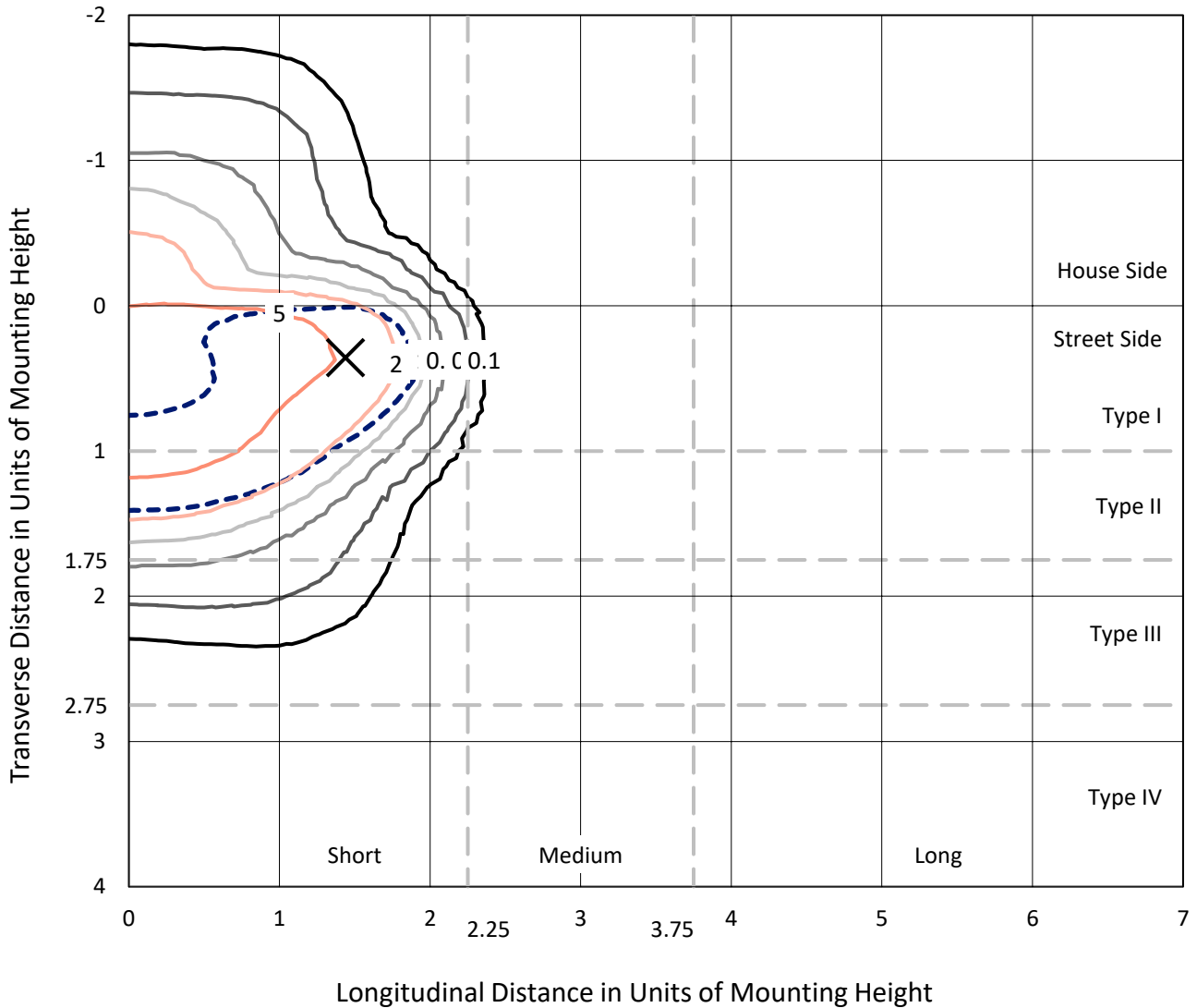
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

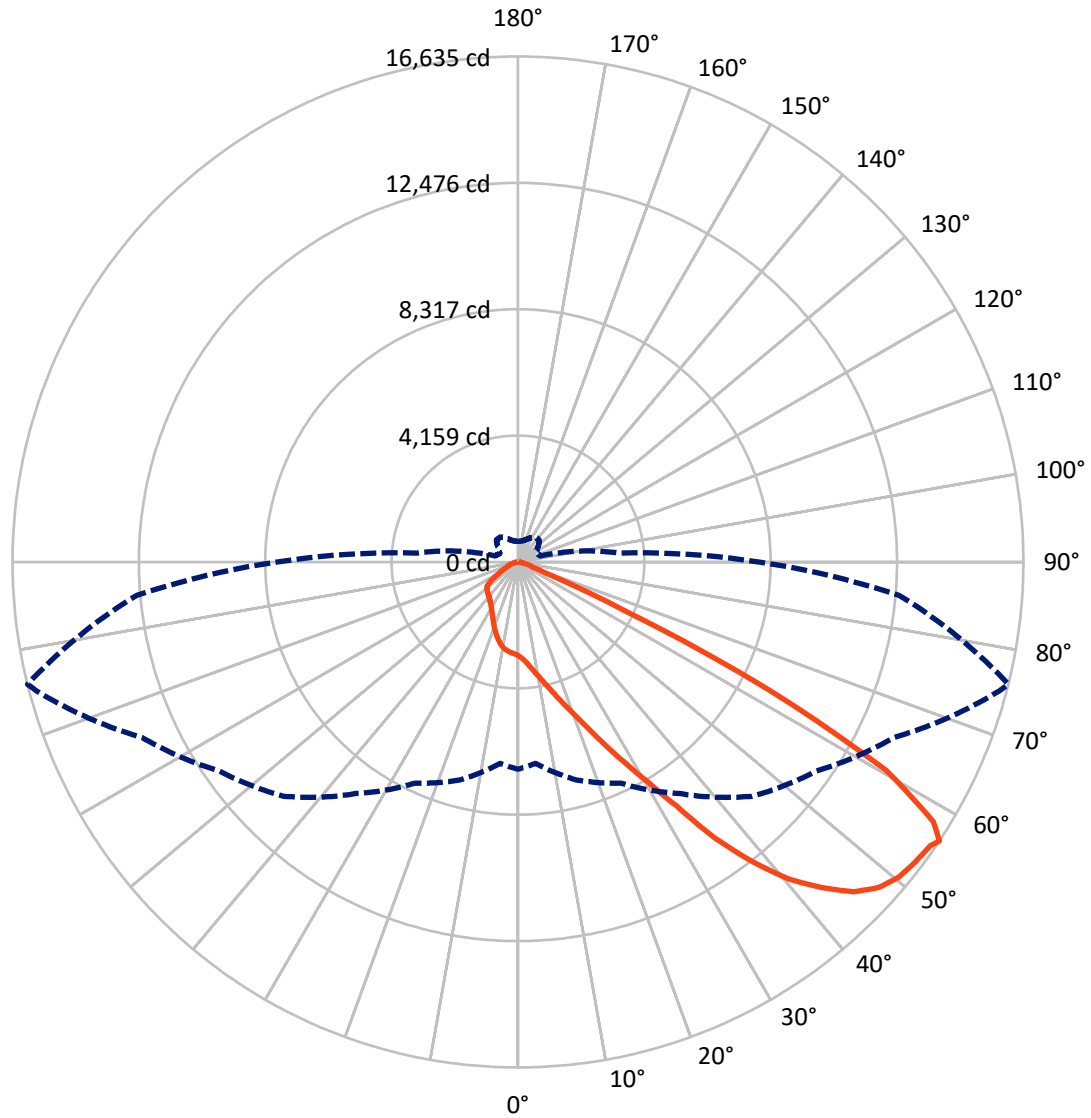
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.8	0.0	2912.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15629.1	0.0	15629.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	18542.0	0.0	18542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	1.7
10°-20°	998.8	5.4
20°-30°	1811.1	9.8
30°-40°	3123.4	16.8
40°-50°	5074.1	27.4
50°-60°	5348.2	28.8
60°-70°	1634.1	8.8
70°-80°	209.5	1.1
80°-90°	31.8	0.2
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°	18542.0	100.0
0°-180°	18542.0	100.0

Coefficient of Utilization

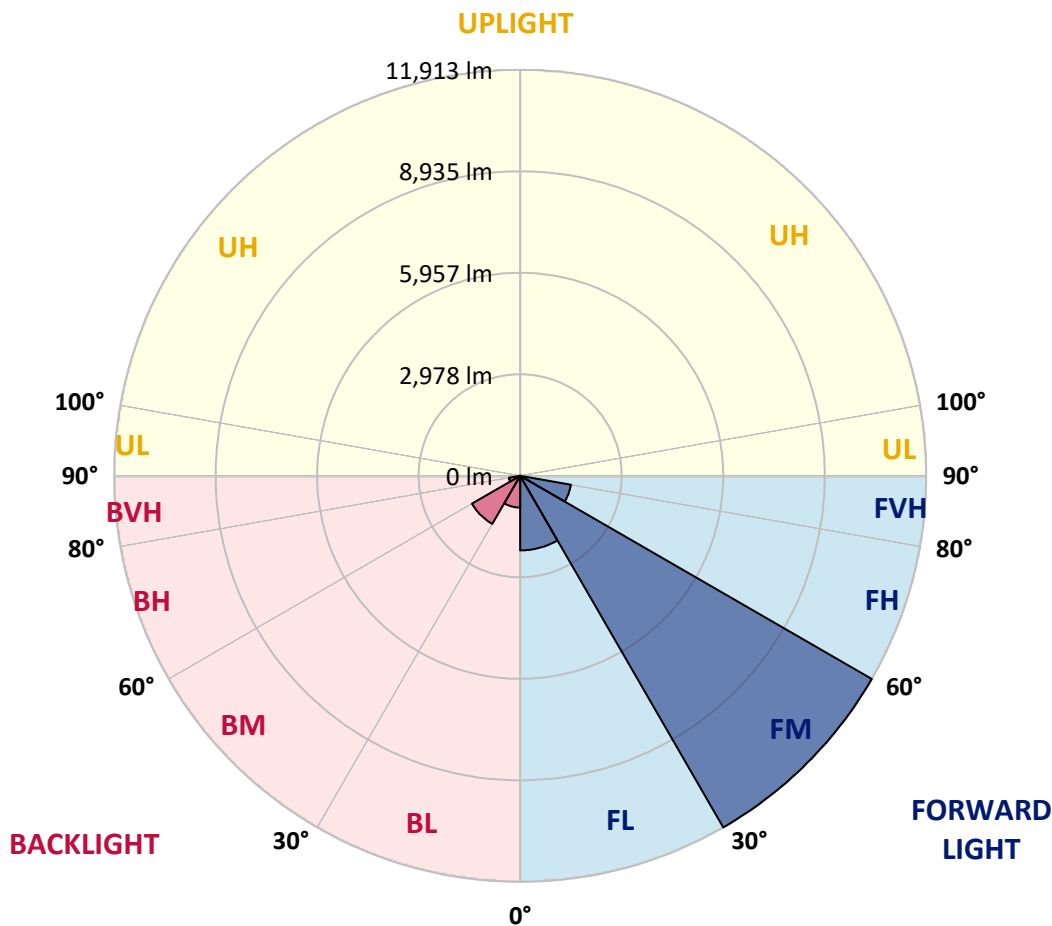


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.0	11.8			
FM (30°-60°)	11913.2	64.2			
FH (60°-80°)	1511.3	8.2			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	931.8	5.0	B2/1000		
BM (30°-60°)	1632.5	8.8	B2/2500		
BH (60°-80°)	332.3	1.8	B1/500		G1/500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3
2.5°	3554.6	3472.6	3476.0	3469.1	3458.9	3421.3	3308.5	3291.4	3216.2	3195.7	3127.4
5°	3981.8	3910.1	3951.1	3889.5	3831.4	3797.3	3612.7	3527.3	3407.6	3363.2	3267.5
7.5°	4248.4	4214.2	4200.6	4204.0	4149.3	4063.9	3981.8	3793.8	3633.2	3599.0	3397.4
10°	4378.3	4357.8	4378.3	4368.0	4392.0	4402.2	4258.7	4145.9	3910.1	3851.9	3537.5
12.5°	4409.1	4450.1	4467.2	4511.6	4569.7	4668.8	4658.6	4504.8	4190.3	4152.7	3752.8
15°	4484.3	4518.4	4501.3	4573.1	4682.5	4850.0	4938.8	4914.9	4576.5	4508.2	4002.3
17.5°	4552.6	4491.1	4549.2	4692.7	4802.1	5058.5	5273.8	5372.9	4996.9	4918.3	4231.3
20°	4644.9	4627.8	4617.6	4689.3	4884.1	5225.9	5653.2	5834.3	5468.6	5386.6	4559.4
22.5°	4925.2	4928.6	4921.7	4815.8	4955.9	5342.1	5984.7	6432.4	6032.6	5964.2	4932.0
25°	5294.3	5249.9	5215.7	5130.2	5113.1	5448.1	6319.7	7163.9	6709.3	6661.4	5335.3
27.5°	5683.9	5683.9	5581.4	5502.8	5393.4	5711.3	6627.3	7874.8	7526.2	7461.2	5687.3
30°	6107.7	6131.7	6118.0	5950.5	5882.2	5998.4	6941.7	8783.9	8462.7	8380.6	6268.4
32.5°	6733.2	6682.0	6740.1	6599.9	6398.3	6500.8	7437.3	9597.4	9679.4	9563.2	7030.6
35°	7560.3	7529.6	7492.0	7263.0	7023.7	7105.8	8138.0	10598.8	11207.2	11149.1	7799.6
37.5°	8302.0	8284.9	8254.2	8097.0	7820.1	7919.2	8934.3	11641.3	12697.4	12506.0	8886.5
40°	9081.3	9173.6	9074.5	8934.3	8681.4	8900.2	9870.8	12259.9	13951.8	13719.4	9717.0
42.5°	10137.4	10065.7	10110.1	9853.7	9717.0	9956.3	10810.7	12878.6	14925.9	14649.0	10598.8
45°	11261.9	11265.3	11145.7	11063.7	10708.2	10968.0	11388.4	13220.4	15701.7	15486.4	11265.3
47.5°	11983.1	11979.7	12109.5	12239.4	11873.7	11617.4	11781.4	13545.1	16101.6	16002.5	11508.0
50°	11870.3	11904.5	12071.9	12557.3	12748.7	12403.5	12150.6	13449.3	16282.8	16272.5	11716.5
52.5°	10325.4	10438.2	10718.5	11419.1	12383.0	12810.2	12536.8	13627.1	16371.6	16388.7	12027.5
55°	7861.1	7922.6	8455.8	9306.9	10373.3	11836.1	12383.0	13767.2	16440.0	16470.8	12403.5
56°	6818.7	6654.6	7423.6	8028.6	9303.5	10903.0	11993.3	13657.8	16399.0	16634.8	12591.5
57.5°	5147.3	5038.0	5660.0	6415.4	7642.4	9330.8	10783.4	13141.7	16122.1	16118.7	12321.4
60°	3130.8	3021.4	3499.9	3944.2	4631.2	5745.5	7286.9	10465.5	13630.5	13917.6	9976.8
62.5°	1862.7	1931.1	2402.8	2672.8	2894.9	3011.2	3769.9	6220.5	9095.0	9300.0	6189.8
65°	1240.7	1264.6	1620.1	2064.4	2163.5	1722.6	1534.6	2519.0	3944.2	3817.8	2553.2
67.5°	765.6	820.3	1086.9	1551.7	1719.2	1257.8	728.0	939.9	1086.9	1086.9	738.3
70°	464.8	492.2	724.6	1056.1	1179.2	810.0	529.8	529.8	522.9	512.7	440.9
72.5°	222.2	239.3	369.1	543.4	553.7	427.2	410.1	447.7	437.5	434.1	365.7
75°	95.7	102.5	129.9	170.9	194.8	181.1	249.5	321.3	331.5	321.3	263.2
77.5°	30.8	34.2	47.9	61.5	64.9	78.6	106.0	133.3	153.8	143.6	129.9
80°	3.4	6.8	13.7	30.8	47.9	61.5	78.6	88.9	99.1	99.1	92.3
82.5°	3.4	3.4	13.7	27.3	44.4	58.1	75.2	85.4	99.1	102.5	95.7
85°	0.0	3.4	10.3	23.9	37.6	37.6	34.2	34.2	23.9	23.9	23.9
87.5°	0.0	0.0	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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°	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3
2.5°	3113.7	3106.9	3014.6	2956.5	2925.7	2864.2	2826.6	2799.2	2778.7	2754.8	2758.2
5°	3154.7	3130.8	2977.0	2871.0	2744.6	2676.2	2618.1	2570.2	2539.5	2532.6	2519.0
7.5°	3270.9	3144.4	2912.0	2720.6	2560.0	2491.6	2440.4	2409.6	2423.3	2392.5	2416.4
10°	3359.8	3171.8	2833.4	2556.6	2395.9	2344.7	2317.3	2341.2	2375.4	2361.8	2344.7
12.5°	3469.1	3199.1	2707.0	2399.4	2249.0	2211.4	2259.2	2303.6	2372.0	2399.4	2365.2
15°	3592.2	3229.9	2546.3	2218.2	2122.5	2153.3	2235.3	2313.9	2382.3	2416.4	2436.9
17.5°	3742.6	3219.6	2389.1	2074.7	2002.9	2091.7	2190.9	2262.6	2365.2	2416.4	2402.8
20°	3882.7	3185.5	2214.8	1931.1	1934.5	2016.5	2098.6	2214.8	2269.5	2337.8	2313.9
22.5°	4016.0	3123.9	2033.6	1832.0	1832.0	1958.4	1999.5	2074.7	2122.5	2156.7	2153.3
25°	4204.0	3007.7	1883.3	1736.3	1777.3	1859.3	1893.5	1917.4	1896.9	1924.3	1927.7
27.5°	4337.3	2888.1	1760.2	1650.8	1726.0	1787.6	1777.3	1763.6	1715.8	1678.2	1702.1
30°	4480.8	2748.0	1654.3	1592.7	1633.7	1688.4	1647.4	1606.4	1531.2	1469.7	1473.1
32.5°	4685.9	2683.0	1562.0	1524.4	1579.1	1585.9	1541.5	1479.9	1404.7	1346.6	1343.2
35°	5068.7	2642.0	1483.4	1479.9	1490.2	1493.6	1449.2	1374.0	1343.2	1295.4	1312.5
37.5°	5451.5	2621.5	1428.7	1415.0	1411.6	1415.0	1363.7	1292.0	1350.1	1346.6	1353.5
40°	5940.3	2713.8	1350.1	1333.0	1336.4	1336.4	1271.5	1250.9	1353.5	1363.7	1367.2
42.5°	6435.9	2830.0	1298.8	1244.1	1257.8	1257.8	1223.6	1199.7	1271.5	1203.1	1192.8
45°	6866.5	3000.9	1244.1	1155.2	1189.4	1206.5	1196.3	1155.2	1110.8	994.6	994.6
47.5°	7006.6	3151.3	1179.2	1069.8	1097.1	1172.3	1141.6	1056.1	977.5	881.8	875.0
50°	7252.7	3315.3	1127.9	970.7	1028.8	1121.1	1090.3	1004.9	916.0	847.6	851.1
52.5°	7505.7	3503.3	1032.2	854.5	926.2	1080.0	1080.0	984.3	847.6	799.8	792.9
55°	7885.0	3496.5	861.3	700.7	827.1	1018.5	1035.6	881.8	758.8	721.2	721.2
56°	7939.7	3339.3	775.9	656.2	782.7	1001.4	1004.9	854.5	724.6	683.6	683.6
57.5°	7529.6	3014.6	680.2	601.5	728.0	970.7	974.1	830.5	697.2	639.1	632.3
60°	5793.3	2040.5	567.4	536.6	659.7	875.0	892.1	755.4	611.8	567.4	563.9
62.5°	3270.9	1131.3	499.0	485.3	567.4	745.1	796.4	659.7	519.5	495.6	502.4
65°	1493.6	622.1	420.4	393.1	458.0	574.2	642.6	543.4	427.2	399.9	399.9
67.5°	546.9	423.8	358.9	311.0	321.3	372.5	417.0	352.0	283.7	242.7	252.9
70°	389.6	355.5	314.4	270.0	249.5	242.7	239.3	198.2	140.1	109.4	116.2
72.5°	314.4	293.9	263.2	229.0	194.8	164.1	140.1	102.5	64.9	44.4	41.0
75°	225.6	215.3	191.4	164.1	136.7	116.2	95.7	64.9	34.2	17.1	17.1
77.5°	116.2	116.2	112.8	102.5	85.4	68.4	54.7	37.6	20.5	6.8	6.8
80°	88.9	95.7	99.1	88.9	78.6	61.5	44.4	27.3	13.7	3.4	3.4
82.5°	85.4	99.1	106.0	92.3	78.6	58.1	44.4	27.3	13.7	3.4	3.4
85°	20.5	20.5	30.8	34.2	44.4	47.9	37.6	23.9	10.3	3.4	3.4
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	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)