

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: P648472

Luminaire Tested: **GALN-SA6B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19708.9 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

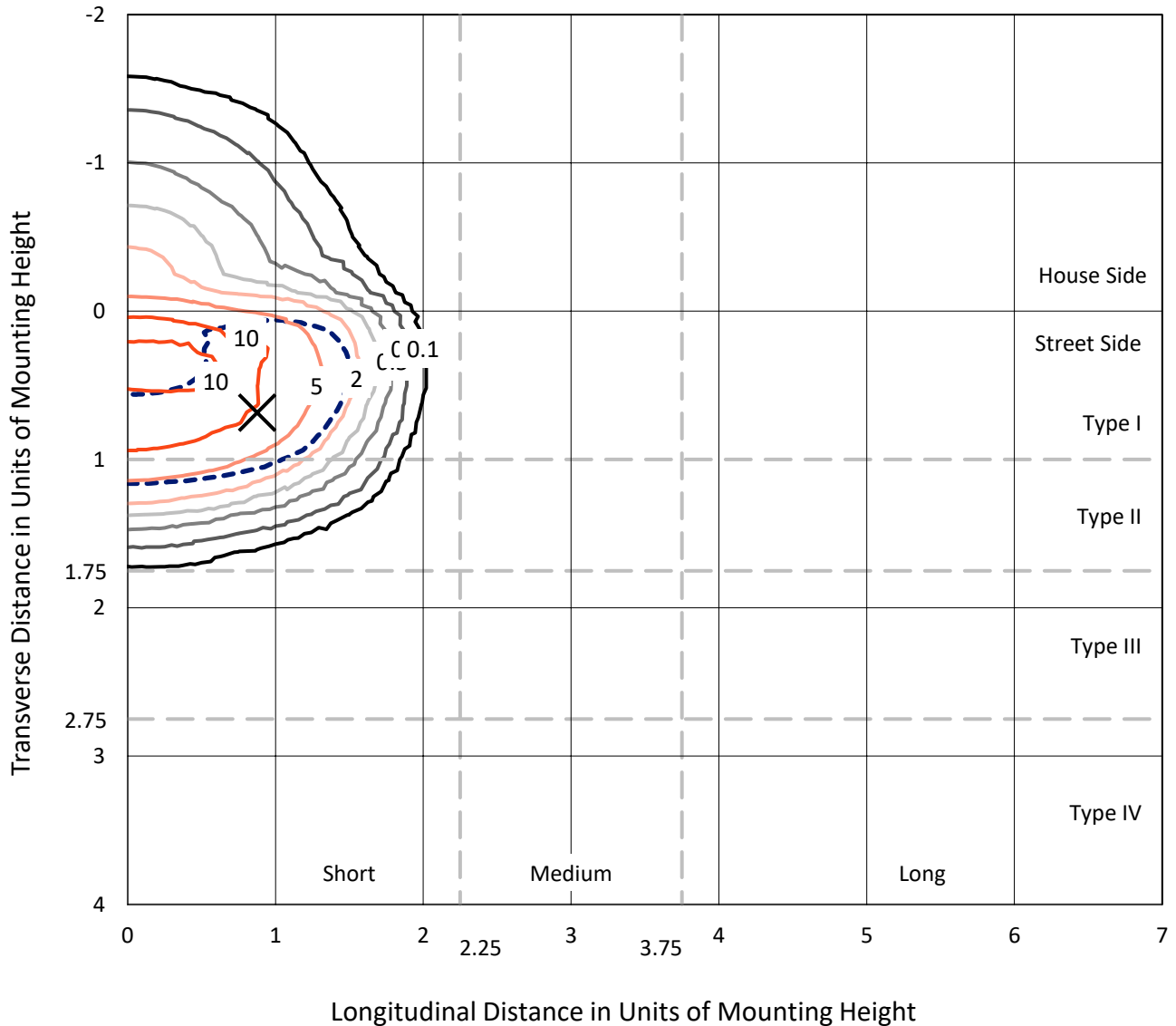
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

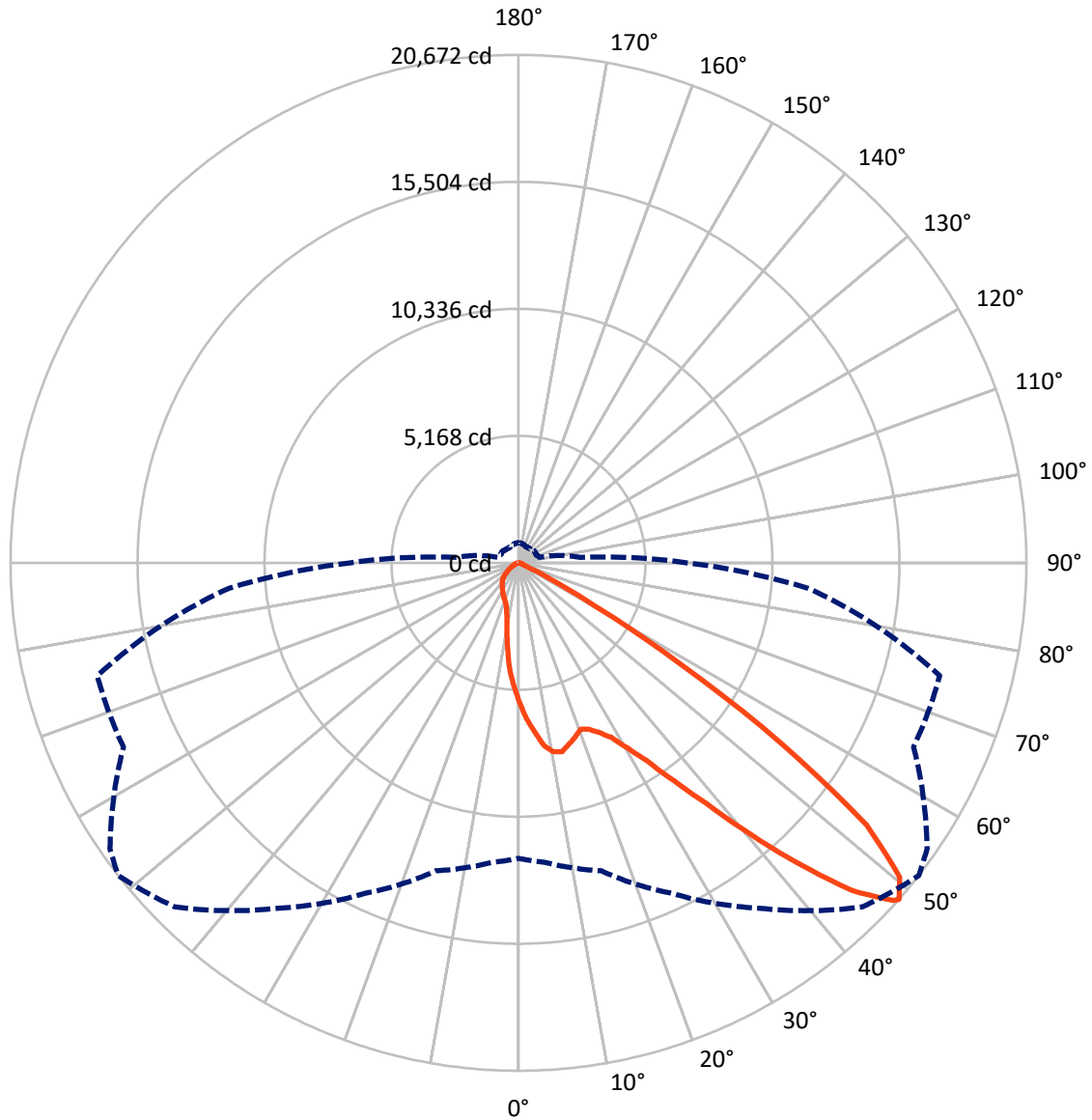
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.7	0.0	2399.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17309.2	0.0	17309.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	19708.9	0.0	19708.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.9	2.6
10°-20°	1361.4	6.9
20°-30°	2324.5	11.8
30°-40°	4280.5	21.7
40°-50°	6647.7	33.7
50°-60°	4000.8	20.3
60°-70°	462.7	2.3
70°-80°	89.6	0.5
80°-90°	20.7	0.1
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°	19708.9	100.0
0°-180°	19708.9	100.0



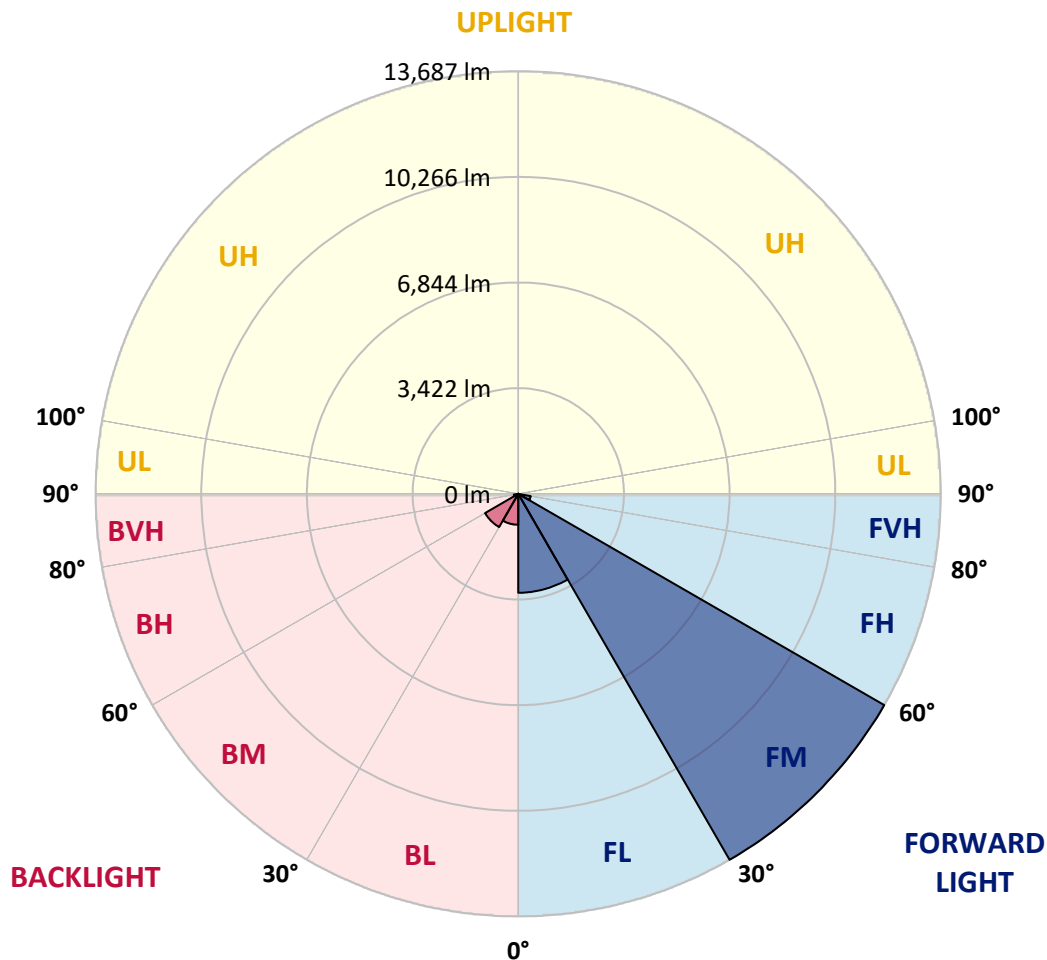
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3204.4	16.3			
FM (30°-60°)	13687.4	69.4			
FH (60°-80°)	407.5	2.1			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	1002.4	5.1	B3/2500		
BM (30°-60°)	1241.6	6.3	B2/2500		
BH (60°-80°)	144.8	0.7	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6
2.5°	6898.3	6740.3	6754.6	6651.2	6590.9	6493.2	6361.0	6335.2	6191.5	5996.1	5797.9
5°	7518.9	7481.6	7530.3	7380.9	7386.7	7225.8	6915.5	6921.3	6590.9	6272.0	5964.6
7.5°	7559.1	7473.0	7521.7	7653.9	7731.5	7702.8	7527.5	7375.2	7062.0	6593.7	6145.5
10°	6769.0	6932.8	6984.5	7202.8	7513.1	7840.6	7820.5	7829.2	7567.7	6955.8	6300.7
12.5°	6294.9	6185.8	6361.0	6493.2	6961.5	7596.4	7886.6	7949.9	7970.0	7306.3	6455.8
15°	6079.4	6079.4	6108.2	6145.5	6484.6	7070.7	7662.5	7846.4	8280.2	7766.0	6700.1
17.5°	6214.5	6208.7	6249.0	6171.4	6297.8	6748.9	7455.6	7665.4	8627.9	8217.0	6892.6
20°	6625.4	6645.5	6619.6	6395.5	6404.2	6743.1	7225.8	7556.3	8863.5	8607.8	7148.2
22.5°	7197.1	7208.6	7062.0	6817.8	6746.0	6912.6	7358.0	7610.8	9053.1	9076.1	7225.8
25°	7858.0	7811.9	7783.2	7438.4	7220.1	7363.7	7656.8	7803.3	9170.9	9478.4	7447.0
27.5°	8774.5	8682.5	8507.2	8199.8	8038.9	7834.9	8044.7	8286.0	9507.1	10041.5	7688.4
30°	10127.6	10047.2	9705.3	9308.9	8886.5	8685.3	8751.4	8883.6	10113.3	10693.7	8007.3
32.5°	12164.7	11995.2	11501.0	10745.3	10170.8	9616.3	9599.0	9739.8	10656.3	11595.8	8386.6
35°	14408.6	14356.9	13630.0	12851.4	11739.4	10883.3	10897.6	10972.3	11696.4	12779.5	8883.6
37.5°	15899.7	16184.1	15721.5	14885.5	13951.7	12727.8	12417.5	12443.4	13124.3	14181.6	9780.0
40°	17051.8	16810.5	16865.0	16669.7	16031.8	15198.7	14512.0	14377.0	14776.3	15733.1	10670.6
42.5°	16549.0	16560.5	16896.7	17359.3	17517.3	17456.9	16755.9	16500.2	16189.9	17003.0	11518.2
45°	15129.8	15425.6	15862.3	17086.3	18160.8	19169.3	19031.4	18606.2	17166.7	18008.5	12006.7
47.5°	12865.7	12854.2	13569.6	15161.3	17548.8	19910.5	20536.9	20238.0	17859.1	17896.5	11906.1
48°	12029.6	12236.5	12974.9	14848.2	17161.0	19801.4	20671.9	20295.5	17741.4	17747.1	11819.9
50°	8892.2	8854.9	9774.3	12072.8	15327.9	18606.2	20103.1	20396.1	17738.5	16991.5	11216.6
52.5°	4697.5	4858.4	5527.8	7590.7	10837.3	15227.4	17732.8	18189.6	17112.2	15756.1	10348.9
55°	1996.8	1804.3	2318.6	3427.6	6096.7	10173.6	13009.4	14026.4	14468.9	13943.1	9053.1
57.5°	712.5	778.6	896.4	1290.0	2562.8	5568.1	7757.3	8547.5	10024.2	10231.1	6168.6
60°	456.8	465.4	502.8	591.9	962.5	2146.2	3680.4	4309.6	4979.1	5140.0	2878.9
62.5°	353.4	356.3	373.5	387.9	456.8	833.2	1382.0	1637.6	1700.9	1462.4	755.6
65°	295.9	298.8	304.6	304.6	324.6	390.7	482.6	531.5	517.2	511.4	428.1
67.5°	227.0	232.7	244.2	244.2	255.7	238.5	267.2	284.5	321.8	390.7	364.9
70°	178.1	181.0	189.6	195.4	195.4	172.4	192.5	209.8	235.6	290.2	287.3
72.5°	137.9	143.7	149.4	149.4	140.8	117.8	137.9	152.3	169.5	201.2	195.4
75°	106.3	106.3	109.2	89.0	69.0	60.4	83.3	100.5	126.5	132.2	109.2
77.5°	28.7	31.6	28.7	25.8	28.7	43.1	54.6	63.2	80.4	80.4	71.8
80°	0.0	2.9	8.6	17.2	28.7	40.2	48.9	54.6	63.2	69.0	66.1
82.5°	0.0	2.9	8.6	17.2	25.8	31.6	43.1	46.0	51.7	60.4	60.4
85°	0.0	2.9	5.7	11.5	17.2	20.1	20.1	17.2	17.2	14.3	11.5
87.5°	0.0	0.0	2.9	5.7	5.7	8.6	8.6	8.6	8.6	8.6	8.6
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°	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6	5691.6
2.5°	5720.4	5631.3	5496.3	5283.6	5079.6	4947.5	4821.1	4680.3	4602.7	4596.9	4553.8
5°	5789.3	5588.2	5266.4	4901.5	4510.8	4174.6	3835.6	3614.3	3416.1	3306.9	3286.8
7.5°	5826.6	5565.2	5045.2	4433.2	3766.6	3217.9	2838.6	2559.9	2450.7	2370.3	2367.4
10°	5904.2	5524.9	4714.8	3812.6	2988.0	2433.5	2172.0	2045.7	1985.3	1962.4	1927.8
12.5°	5961.7	5450.2	4375.7	3174.8	2361.7	2016.9	1902.0	1873.2	1876.1	1887.7	1873.2
15°	6042.1	5384.1	3918.9	2605.9	1982.4	1815.8	1815.8	1821.6	1861.7	1867.5	1864.6
17.5°	6036.4	5254.9	3447.7	2146.2	1752.6	1729.6	1738.3	1792.8	1818.7	1827.3	1807.2
20°	6105.4	5134.2	2962.2	1833.0	1623.3	1657.8	1715.2	1729.6	1761.2	1766.9	1744.0
22.5°	6085.2	4832.5	2511.1	1586.0	1525.6	1591.7	1649.2	1666.4	1657.8	1640.5	1637.6
25°	6047.9	4574.0	2097.3	1422.2	1453.8	1525.6	1580.2	1548.6	1531.4	1534.2	1537.1
27.5°	5981.8	4246.4	1755.5	1307.3	1356.1	1462.4	1459.5	1448.0	1465.3	1450.9	1465.3
30°	5970.3	3918.9	1473.9	1203.9	1284.3	1361.9	1367.6	1387.7	1407.8	1382.0	1407.8
32.5°	5987.5	3559.8	1272.8	1140.6	1241.2	1244.0	1307.3	1327.3	1313.0	1255.5	1261.3
35°	6119.7	3284.0	1126.3	1106.1	1172.2	1175.1	1235.4	1209.6	1146.4	1111.9	1132.0
37.5°	6398.4	3054.1	1057.3	1074.5	1080.3	1117.7	1120.5	1068.8	1074.5	1071.7	1083.1
40°	6754.6	2878.9	1008.4	1045.8	1040.1	1065.9	962.5	991.2	1017.0	1025.7	1031.4
42.5°	6998.8	2752.4	976.9	999.8	988.4	942.3	884.9	913.7	933.7	965.4	971.1
45°	7108.1	2651.9	939.5	919.4	919.4	836.1	813.1	818.9	864.8	899.3	893.6
47.5°	6929.9	2554.1	873.4	813.1	833.2	764.2	738.4	738.4	787.2	830.3	821.7
48°	6861.0	2514.0	876.3	790.1	804.5	752.8	726.9	721.1	775.7	816.0	816.0
50°	6519.0	2364.6	801.6	726.9	698.2	692.4	675.2	680.9	715.4	752.8	752.8
52.5°	5852.5	2042.8	678.1	623.4	571.7	606.2	614.8	603.4	620.6	655.1	652.2
55°	4884.3	1568.7	543.0	517.2	476.9	514.3	531.5	517.2	499.9	525.8	525.8
57.5°	3128.8	844.7	433.9	439.6	399.3	436.7	451.1	416.6	385.0	405.1	402.2
60°	1410.7	505.7	356.3	347.7	321.8	364.9	387.9	347.7	304.6	318.9	333.2
62.5°	528.7	359.2	270.1	264.3	258.5	298.8	310.3	278.7	235.6	244.2	247.1
65°	387.9	316.0	215.5	195.4	206.9	235.6	229.8	198.3	169.5	169.5	175.2
67.5°	330.4	275.9	175.2	152.3	152.3	155.1	143.7	126.5	117.8	123.6	129.3
70°	258.5	218.4	137.9	117.8	106.3	94.8	83.3	80.4	71.8	80.4	77.6
72.5°	166.6	146.5	106.3	89.0	80.4	66.1	54.6	51.7	43.1	40.2	40.2
75°	89.0	89.0	83.3	71.8	63.2	51.7	43.1	34.5	23.0	17.2	17.2
77.5°	63.2	69.0	74.7	69.0	57.5	43.1	34.5	23.0	11.5	5.7	5.7
80°	60.4	69.0	74.7	66.1	57.5	43.1	31.6	17.2	8.6	2.9	2.9
82.5°	54.6	63.2	69.0	60.4	51.7	37.3	28.7	17.2	8.6	2.9	2.9
85°	11.5	14.3	17.2	17.2	20.1	25.8	20.1	14.3	5.7	2.9	2.9
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	5.7	5.7	2.9	2.9	2.9
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)