

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: P648486

Luminaire Tested: **GALN-SA6B-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26186.7 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

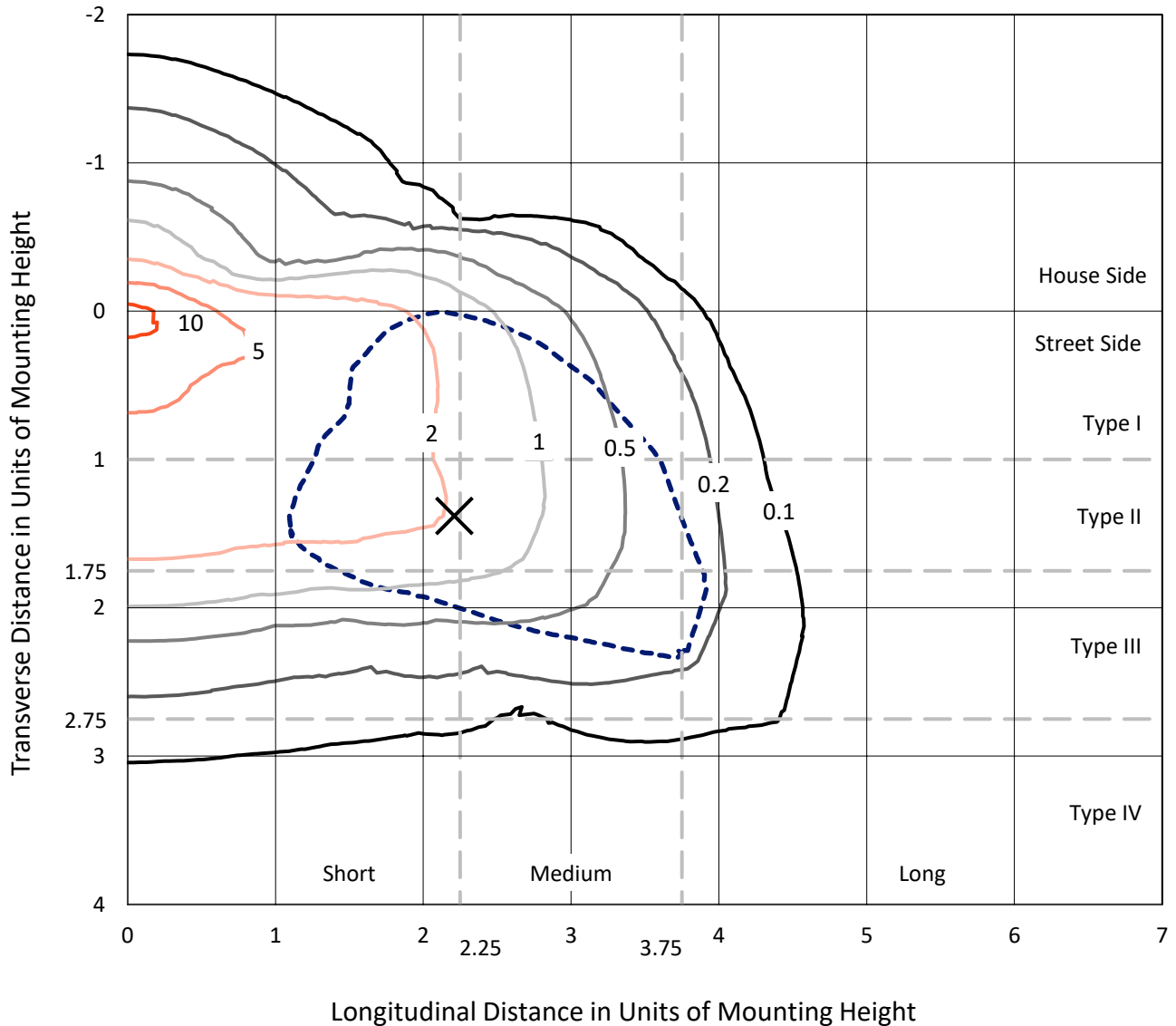
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

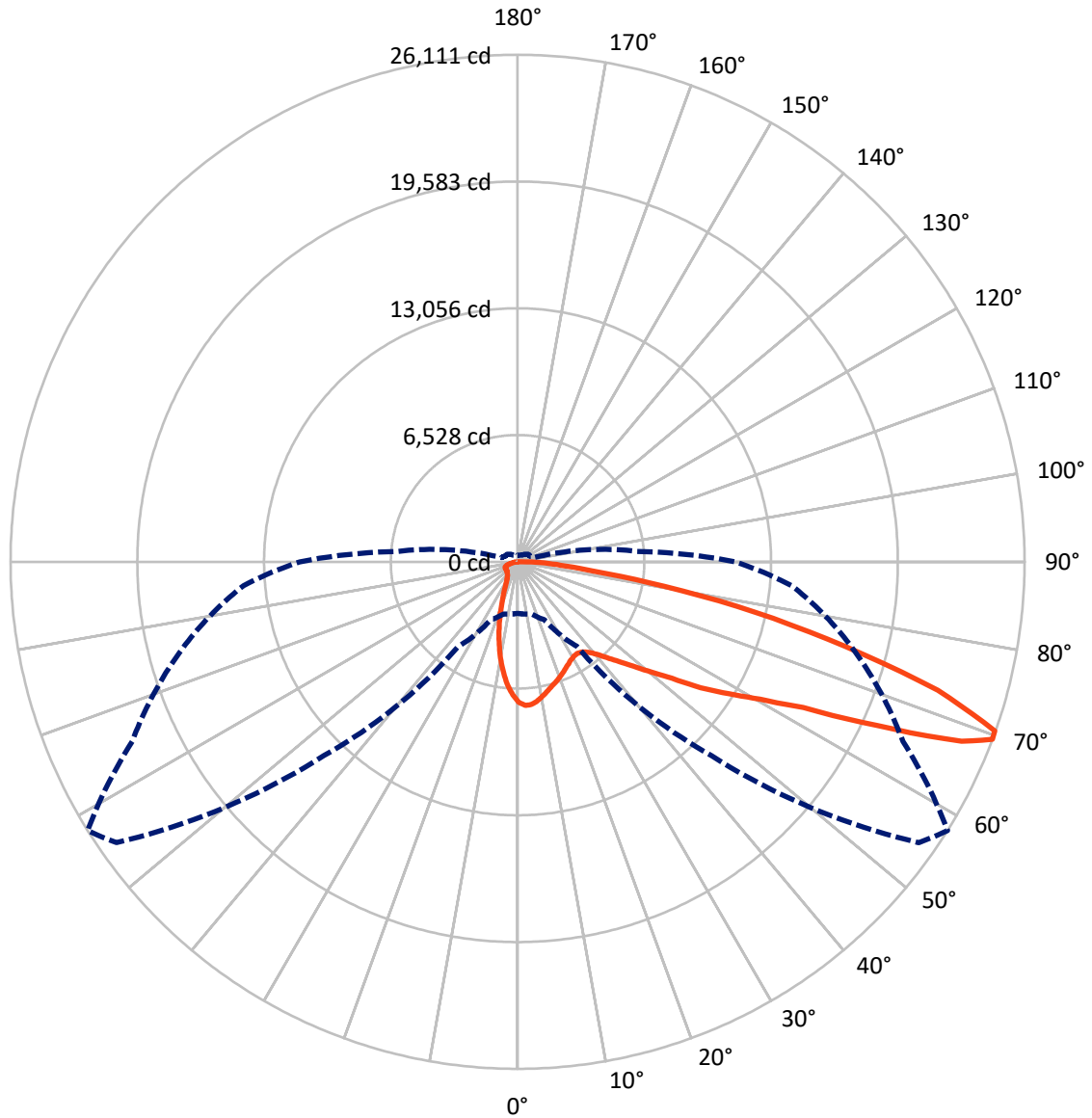
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3837.7	0.0	3837.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	22349.0	0.0	22349.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	26186.7	0.0	26186.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.5	2.3
10°-20°	1349.5	5.2
20°-30°	1743.5	6.7
30°-40°	2264.5	8.6
40°-50°	3292.2	12.6
50°-60°	5253.3	20.1
60°-70°	7017.8	26.8
70°-80°	4045.5	15.4
80°-90°	605.9	2.3
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°	26186.7	100.0
0°-180°	26186.7	100.0

**Coefficient of Utilization**



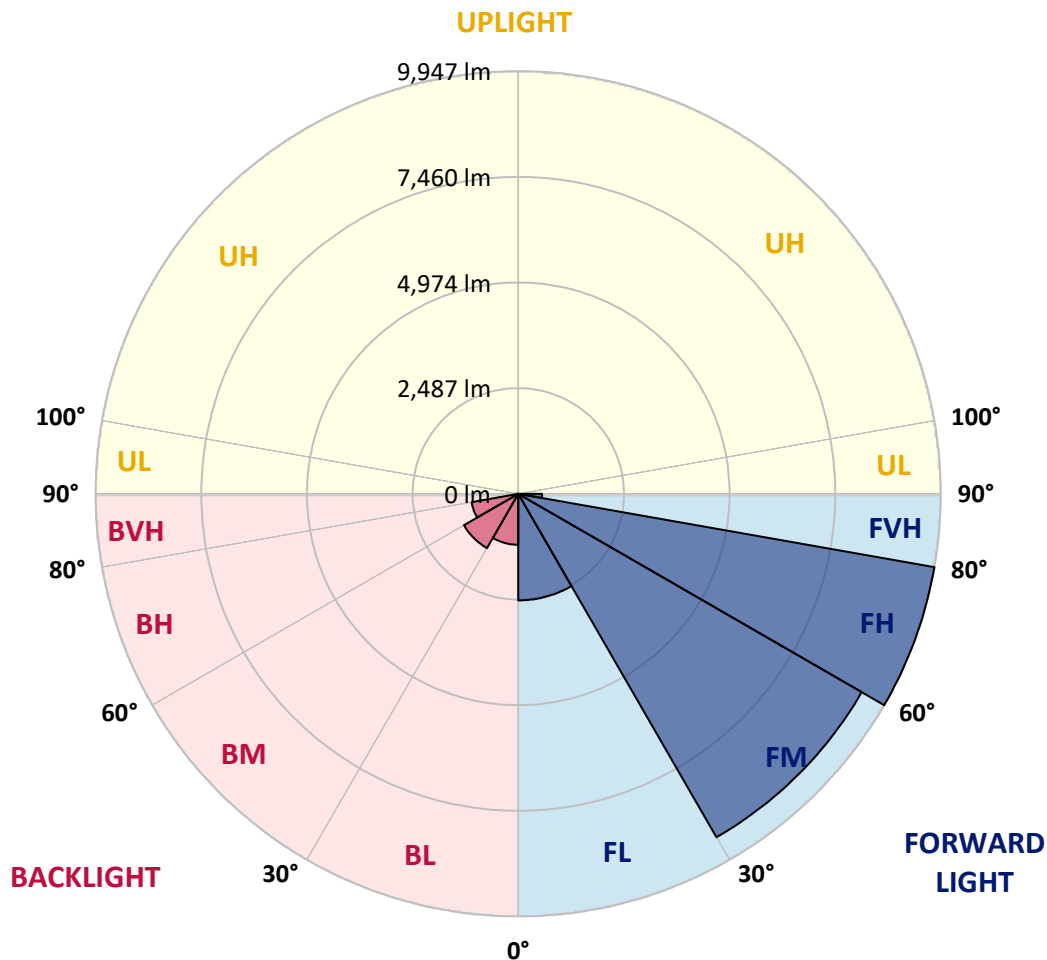
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2508.0	9.6			
FM (30°-60°)	9334.2	35.6			
FH (60°-80°)	9947.3	38.0			G4/12000
FVH (80°-90°)	559.5	2.1			G4/750
BL (0°-30°)	1199.5	4.6	B3/2500		
BM (30°-60°)	1475.8	5.6	B2/2500		
BH (60°-80°)	1115.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	46.4	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5
2.5°	7505.2	7525.6	7519.8	7512.5	7500.8	7468.6	7416.1	7407.3	7373.7	7302.2	7213.1
5°	7389.8	7407.3	7408.8	7419.0	7433.6	7427.8	7389.8	7385.4	7335.8	7239.4	7090.4
7.5°	6994.0	7017.4	7068.5	7125.5	7176.6	7224.7	7236.5	7243.8	7213.1	7102.1	6903.5
10°	6548.6	6572.0	6595.3	6680.0	6805.6	6925.4	7024.7	7037.8	7045.1	6942.9	6700.4
12.5°	6054.9	6103.2	6152.8	6278.4	6446.4	6634.8	6810.0	6837.8	6887.4	6810.0	6525.2
15°	5635.8	5685.4	5757.0	5869.5	6072.5	6344.1	6591.0	6636.2	6734.0	6694.6	6361.6
17.5°	5345.2	5362.7	5412.4	5540.9	5760.0	6046.2	6376.3	6466.8	6623.1	6612.8	6221.5
20°	5115.9	5137.8	5168.5	5247.4	5475.2	5777.4	6176.1	6293.0	6504.8	6539.9	6082.7
22.5°	5019.5	5035.6	5031.2	5073.5	5228.3	5532.1	5973.2	6111.9	6399.6	6490.2	5954.2
25°	5025.4	5039.9	5018.1	5007.8	5099.8	5316.0	5761.4	5938.1	6314.9	6456.6	5837.3
27.5°	5123.2	5133.4	5092.6	5051.7	5059.0	5181.7	5586.2	5781.8	6243.3	6471.2	5739.5
30°	5254.6	5273.7	5247.4	5197.7	5143.7	5149.5	5473.7	5666.5	6209.7	6522.3	5692.8
32.5°	5424.1	5441.6	5429.9	5390.5	5320.3	5243.0	5446.0	5624.1	6212.7	6626.0	5682.5
35°	5602.2	5637.3	5656.2	5653.3	5596.4	5462.1	5555.5	5703.0	6282.8	6799.8	5742.4
37.5°	5803.8	5833.0	5914.8	5967.3	5914.8	5758.5	5802.3	5904.5	6437.6	7051.0	5873.9
40°	5999.5	6043.3	6163.1	6326.6	6306.1	6168.9	6179.1	6246.3	6710.7	7424.9	6130.9
42.5°	6203.9	6256.5	6465.3	6707.8	6756.0	6649.4	6677.1	6737.0	7099.1	7943.3	6572.0
45°	6466.8	6529.6	6786.7	7089.0	7278.8	7213.1	7291.9	7321.1	7619.1	8618.0	7153.2
47.5°	6805.6	6878.7	7195.5	7572.4	7841.0	7900.9	8038.2	8020.7	8263.2	9416.9	7906.8
50°	7376.6	7417.5	7716.9	8101.0	8470.5	8740.7	8889.6	8917.4	9062.0	10193.9	8749.5
52.5°	8055.7	8092.3	8308.4	8644.3	9107.3	9679.8	10047.8	9957.3	9992.3	11140.2	9735.3
55°	8819.6	8880.9	9018.2	9241.7	9841.8	10684.6	11423.5	11445.4	11057.0	12045.7	10680.2
57.5°	9411.0	9514.7	9749.8	10068.2	10829.1	11801.8	12794.8	12809.5	12312.9	13012.4	11722.9
60°	9113.1	9235.8	9773.2	10548.7	12124.5	13751.4	14433.5	14350.3	13535.3	14113.7	12995.0
62.5°	7828.0	7849.8	8631.2	9843.3	12523.2	16359.8	16872.4	16520.4	15166.6	15509.8	14287.4
65°	5066.2	5209.4	5828.6	7527.1	11213.2	17807.1	21145.6	20332.2	17453.7	17094.4	15369.6
67.5°	3198.3	3161.8	3418.9	4298.0	7712.6	16532.1	24792.4	24663.8	20444.6	18094.8	15111.1
69°	2652.2	2693.1	2780.7	3294.7	5307.3	14115.1	25223.2	26111.1	21894.9	18016.0	14172.1
70°	2405.4	2424.3	2516.3	2920.9	4095.1	11822.2	24516.4	26071.7	22464.4	17685.9	13491.5
72.5°	1908.8	1907.3	2065.1	2430.2	3061.1	6748.7	20130.6	22635.3	21827.7	16149.5	11147.5
75°	1450.2	1473.6	1647.4	2056.3	2820.1	3687.6	14048.0	17431.8	17433.2	12755.5	6956.0
77.5°	1045.7	1060.3	1263.3	1726.2	2656.6	2989.5	9357.0	12502.8	11753.6	5844.6	2186.3
80°	685.0	693.7	848.5	1367.0	2395.1	2820.1	5548.2	7652.7	5543.8	1551.0	722.9
82.5°	375.4	419.1	518.4	885.0	1922.0	2605.4	3372.1	3873.1	2079.6	690.8	376.8
85°	188.4	200.1	292.1	517.0	1256.0	2155.6	2348.4	2221.3	1073.4	343.2	195.7
87.5°	55.5	70.1	121.2	200.1	509.7	1123.1	1307.1	1172.7	413.3	124.1	40.9
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°	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5
2.5°	7176.6	7150.3	7033.5	6928.3	6831.9	6729.7	6643.5	6567.6	6574.9	6576.3	6498.9
5°	7013.0	6953.1	6731.1	6523.8	6348.5	6126.5	5936.7	5814.0	5752.6	5670.9	5700.1
7.5°	6791.0	6675.6	6367.5	6022.8	5700.1	5412.4	5099.8	4885.1	4747.9	4615.0	4632.5
10°	6561.8	6376.3	5927.9	5472.2	5054.6	4594.6	4195.9	3854.1	3600.0	3505.0	3442.2
12.5°	6326.6	6082.7	5513.2	4907.1	4330.2	3779.6	3214.4	2847.8	2567.5	2418.5	2437.5
15°	6111.9	5815.4	5080.9	4341.9	3592.6	2937.0	2373.2	2024.1	1828.5	1787.6	1810.9
17.5°	5913.3	5524.8	4676.3	3792.8	2917.9	2202.3	1783.2	1586.0	1507.2	1485.3	1483.8
20°	5708.9	5278.0	4222.1	3205.7	2273.9	1707.3	1463.3	1371.3	1356.8	1365.5	1367.0
22.5°	5501.4	4972.8	3754.8	2623.0	1810.9	1396.2	1279.3	1254.5	1266.2	1286.6	1289.6
25°	5310.1	4704.0	3305.0	2111.8	1445.8	1226.8	1169.8	1169.8	1196.1	1226.8	1228.2
27.5°	5152.5	4444.1	2856.6	1676.6	1210.7	1104.1	1085.1	1095.3	1131.8	1155.2	1156.6
30°	5022.5	4201.7	2433.1	1343.6	1064.6	1006.2	1001.8	1019.4	1045.7	1067.5	1069.0
32.5°	4924.6	3988.4	2037.3	1128.9	963.9	931.8	930.3	943.4	958.1	963.9	969.7
35°	4886.6	3811.7	1675.2	993.1	896.7	876.3	876.3	874.8	880.6	883.5	886.5
37.5°	4917.3	3676.0	1394.7	905.5	847.0	832.5	823.7	814.9	812.0	812.0	813.5
40°	5047.3	3604.4	1185.9	848.5	812.0	790.1	774.0	763.8	753.6	756.5	759.4
42.5°	5323.3	3617.5	1044.2	810.6	781.4	750.7	727.3	715.6	708.3	717.1	715.6
45°	5762.9	3748.9	953.7	784.3	750.7	711.2	689.4	677.6	677.6	690.8	695.1
47.5°	6377.7	4000.1	905.5	763.8	727.3	680.6	658.7	649.9	652.8	674.7	676.2
50°	7128.4	4436.8	896.7	753.6	715.6	658.7	633.8	625.1	632.4	655.8	658.7
52.5°	7956.5	4999.1	939.1	755.0	705.4	645.5	613.4	600.2	607.5	626.6	632.4
55°	8937.9	5703.0	1048.6	760.9	690.8	638.2	598.8	569.6	578.3	591.5	593.0
57.5°	9939.7	6591.0	1241.4	762.3	679.1	625.1	573.9	536.0	536.0	544.7	549.1
60°	11163.5	7557.8	1495.5	763.8	680.6	606.0	540.3	498.0	492.2	496.6	498.0
62.5°	12378.7	8366.8	1537.8	759.4	695.1	587.1	503.9	460.0	449.8	448.3	445.4
65°	12914.6	8216.4	1260.3	739.0	711.2	575.4	474.7	423.5	406.0	400.2	400.2
67.5°	12041.3	6950.2	947.8	711.2	701.0	563.8	446.9	392.8	372.4	360.7	360.7
69°	11220.5	6182.0	851.4	692.3	674.7	544.7	429.4	376.8	352.0	338.8	334.4
70°	10586.7	5653.3	810.6	676.2	649.9	522.8	416.2	365.1	337.4	322.8	319.9
72.5°	8448.6	4435.3	709.8	614.8	553.5	439.6	369.5	328.6	302.3	286.3	281.9
75°	4869.1	2403.9	588.6	534.6	445.4	341.8	312.5	286.3	265.8	251.2	246.8
77.5°	1498.4	928.9	426.4	422.0	327.1	264.3	249.7	239.5	224.9	208.8	205.9
80°	630.9	473.2	289.2	284.8	217.6	184.0	179.6	178.2	172.3	159.2	154.8
82.5°	346.1	267.2	201.5	175.2	131.5	106.6	111.0	112.4	108.1	94.9	86.1
85°	169.4	146.0	97.9	78.8	59.9	38.0	36.5	43.8	40.9	29.2	32.1
87.5°	33.6	40.9	26.3	11.7	5.9	0.0	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)