

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: P647492

Luminaire Tested: **GALN-SA6D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647492
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-SA6D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 35853.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

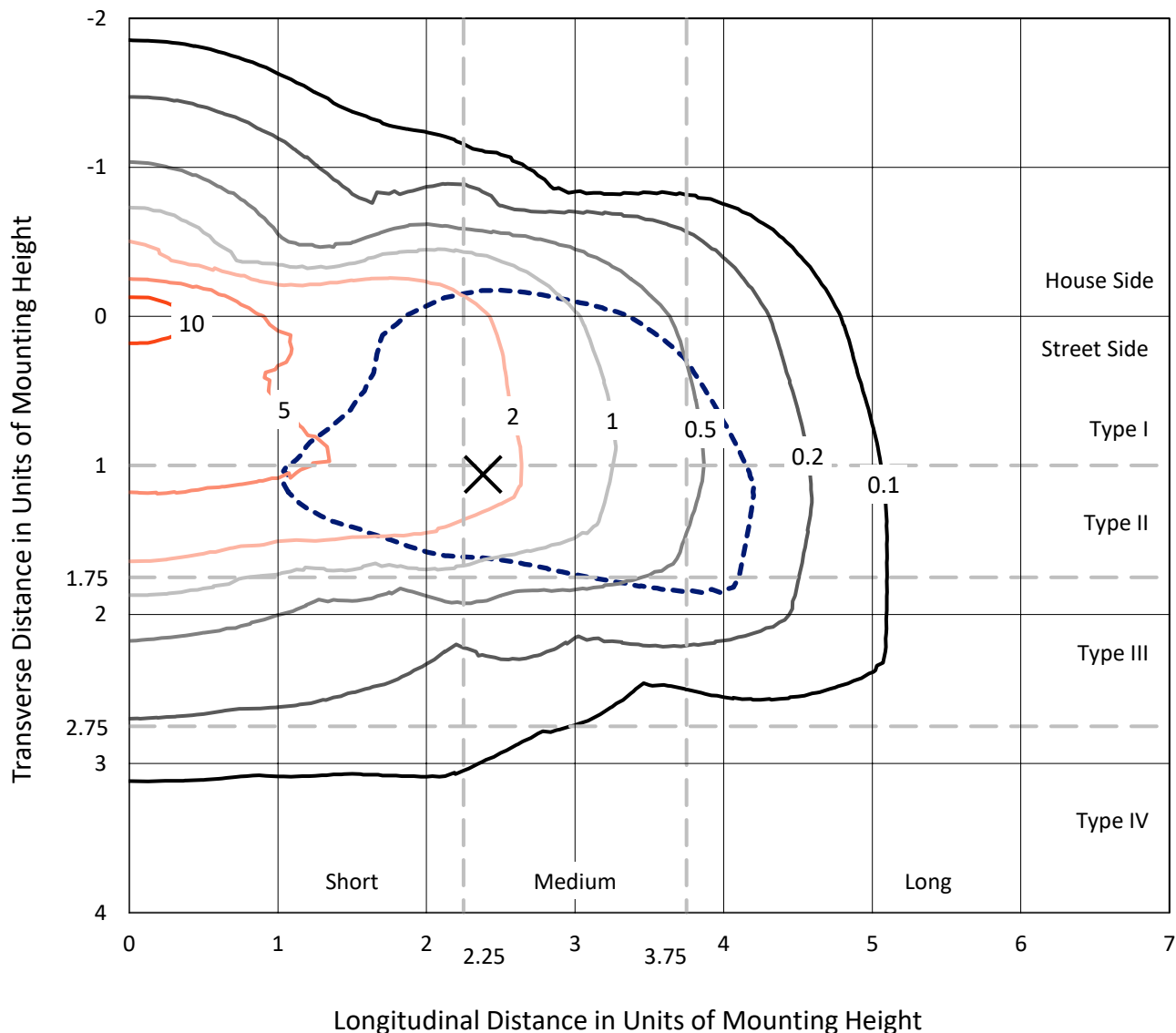
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

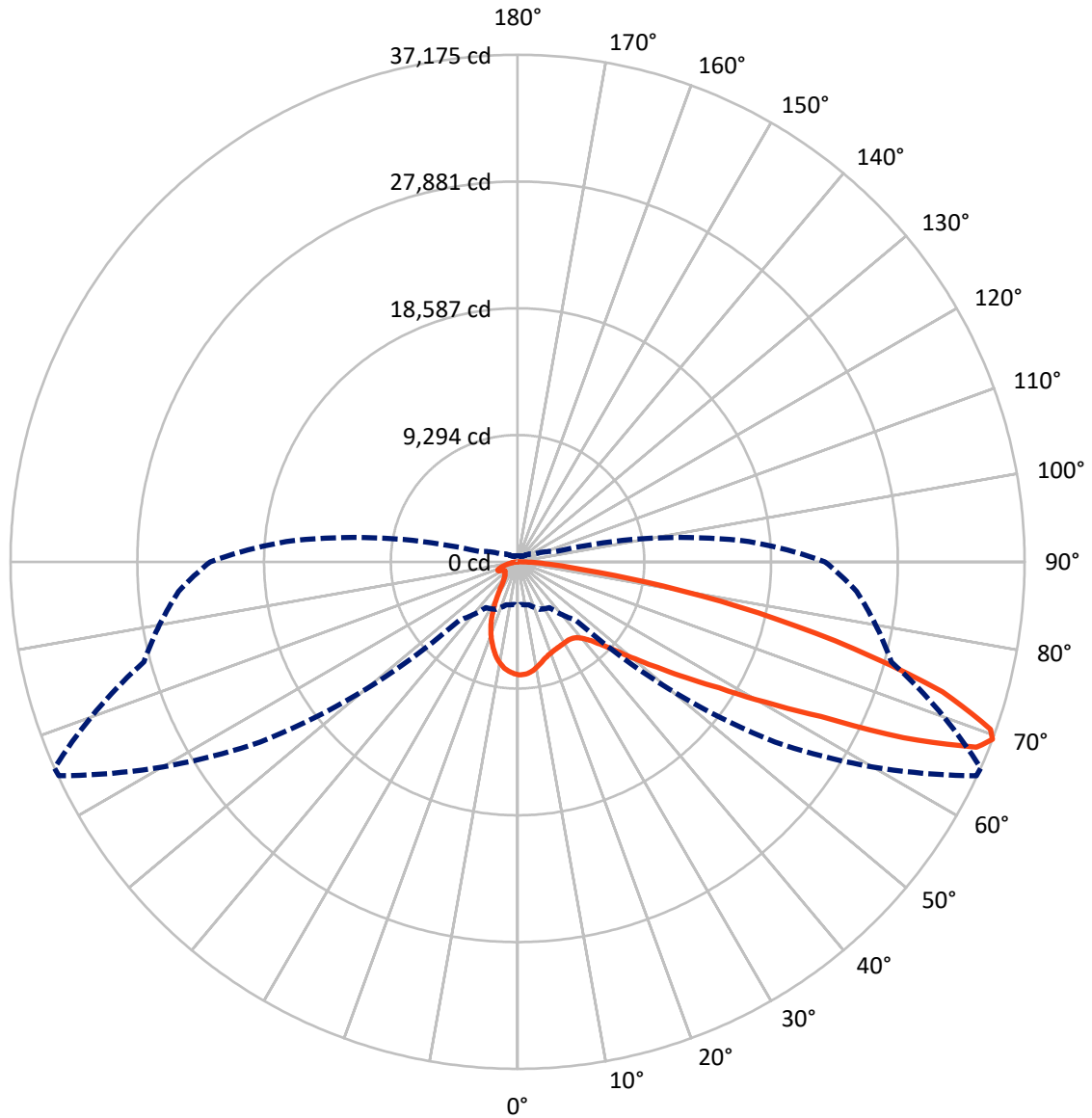
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	6742.7	0.0	6742.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29110.9	0.0	29110.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	35853.6	0.0	35853.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.0	2.0
10°-20°	1705.4	4.8
20°-30°	2321.7	6.5
30°-40°	3119.8	8.7
40°-50°	4658.4	13.0
50°-60°	7409.9	20.7
60°-70°	9113.8	25.4
70°-80°	5929.9	16.5
80°-90°	875.7	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°	35853.6	100.0
0°-180°	35853.6	100.0

Coefficient of Utilization

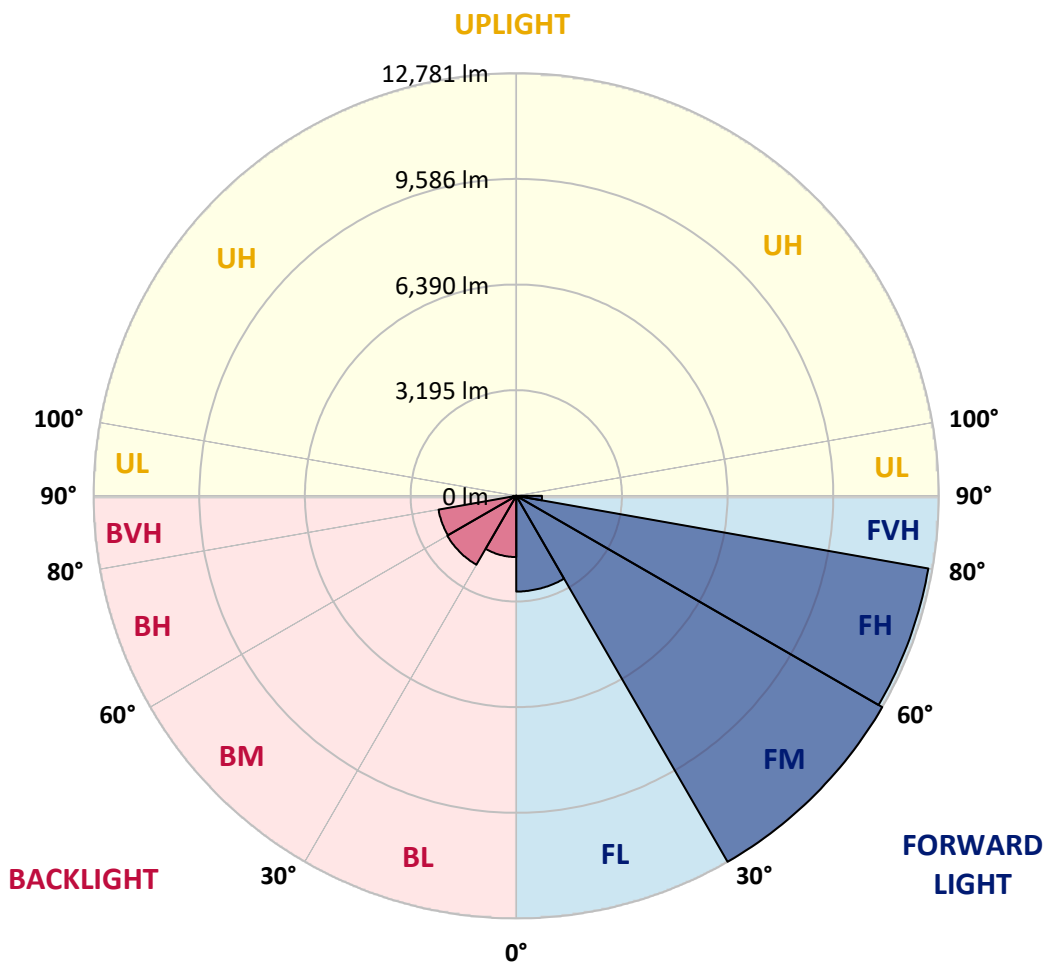


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2895.1	8.1			
FM (30°-60°)	12780.7	35.6			
FH (60°-80°)	12656.5	35.3			G5
FVH (80°-90°)	778.5	2.2			G5
BL (0°-30°)	1850.9	5.2	B3/2500		
BM (30°-60°)	2407.4	6.7	B2/2500		
BH (60°-80°)	2387.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	97.1	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6
2.5°	7989.7	8021.4	8057.2	8096.9	8172.4	8214.1	8243.8	8277.6	8281.6	8299.4	8285.5
5°	7400.0	7437.7	7491.4	7566.8	7680.0	7856.7	8039.4	8188.2	8206.2	8289.5	8313.3
7.5°	6907.6	6929.5	6973.1	7094.2	7255.0	7451.7	7717.7	8019.5	8063.2	8261.7	8331.2
10°	6506.5	6528.3	6580.0	6705.1	6863.9	7110.1	7402.0	7799.1	7834.9	8176.3	8335.2
12.5°	6206.7	6226.6	6282.2	6405.3	6587.9	6818.3	7139.9	7560.8	7612.5	8063.2	8297.5
15°	5978.4	6016.1	6061.8	6163.0	6355.6	6578.0	6889.7	7342.4	7384.1	7944.0	8271.6
17.5°	5881.1	5899.0	5930.8	6024.0	6165.0	6383.4	6697.2	7171.7	7221.3	7860.6	8265.7
20°	5885.0	5903.0	5908.9	5960.5	6061.8	6250.4	6560.1	7036.7	7096.3	7787.2	8275.6
22.5°	6020.1	6022.1	6000.2	5982.4	6022.1	6178.9	6462.8	6935.4	7004.9	7755.4	8283.6
25°	6228.5	6264.3	6232.5	6149.1	6075.7	6151.1	6425.1	6879.8	6945.3	7709.7	8273.6
27.5°	6566.1	6572.0	6546.3	6433.0	6242.5	6186.9	6409.2	6838.1	6893.7	7676.0	8224.0
30°	7018.8	7000.9	6977.1	6852.0	6552.2	6323.8	6443.0	6800.4	6858.0	7626.3	8164.4
32.5°	7477.4	7533.0	7511.2	7364.3	6975.1	6589.9	6552.2	6796.4	6844.0	7588.6	8098.9
35°	7963.9	7989.7	8092.9	8017.5	7618.4	7020.8	6756.7	6858.0	6895.6	7590.6	8053.2
37.5°	8345.1	8414.6	8656.8	8722.4	8347.1	7590.6	7088.3	7032.7	7048.6	7687.9	8071.1
40°	8805.8	8924.9	9236.6	9504.7	9258.4	8331.2	7652.2	7356.3	7376.2	7922.2	8188.2
42.5°	9389.5	9472.9	9891.8	10255.2	10215.5	9310.1	8335.2	7886.5	7896.4	8388.8	8515.8
45°	10072.5	10191.6	10662.2	11208.3	11301.5	10418.0	9322.0	8688.6	8682.6	9113.5	9127.4
47.5°	10946.1	11019.6	11486.2	12081.8	12459.1	11809.8	10519.2	9840.2	9776.7	10169.8	10056.6
50°	11750.2	11865.4	12218.9	12870.1	13809.2	13440.0	12093.7	11333.3	11184.4	11551.7	11361.1
52.5°	12087.8	12208.9	12506.7	13314.8	14966.8	15548.6	14093.1	13114.3	12866.1	13148.1	13078.6
55°	11502.0	11658.9	11936.9	12919.7	15475.1	17980.8	16789.5	15173.3	14992.6	14871.5	14891.3
57.5°	9927.6	10076.5	10451.7	11535.9	14867.5	19745.9	20639.4	17820.0	17432.8	16874.9	16970.2
60°	7556.9	7650.1	7844.7	9046.0	13066.6	20204.6	25011.5	21165.6	20919.3	18870.3	18937.8
62.5°	5366.8	5472.1	5607.1	6206.7	9566.2	18912.0	28434.5	25837.4	24957.9	20937.3	20871.7
65°	4358.2	4286.7	4449.6	4729.5	5613.0	14657.1	29204.9	32322.2	31111.0	23659.4	22750.0
67.5°	3583.9	3508.4	3669.2	4167.6	4268.8	8507.9	26429.1	36531.4	36289.2	26619.7	24658.1
69°	3172.9	3133.2	3274.1	3841.9	4098.1	6041.9	23024.0	37117.2	37174.7	28365.0	24951.9
70°	2859.1	2875.0	3012.0	3677.2	4020.6	4981.7	19678.4	36309.0	36797.5	29236.7	24634.3
72.5°	2104.6	2138.4	2329.0	3045.8	3947.2	4227.2	11710.5	31714.6	32578.3	29288.3	22535.6
75°	1471.3	1455.4	1624.2	2293.3	3728.8	4189.4	6877.8	24527.0	25505.9	25315.3	18935.8
77.5°	963.0	988.8	1123.8	1620.2	3137.1	4157.7	4483.3	17401.0	18036.4	16930.5	11200.3
80°	679.0	677.1	752.5	1105.9	2327.0	3994.9	3671.2	10968.0	10807.1	6653.5	3321.8
82.5°	389.2	416.9	504.3	778.3	1556.6	3516.4	3377.4	5245.7	4789.1	1896.2	1121.8
85°	216.4	226.4	299.8	470.6	909.4	2648.7	2948.5	2386.6	2251.6	792.2	482.5
87.5°	69.5	75.5	125.1	238.3	413.0	1250.8	1669.8	1102.0	1016.6	286.0	194.6
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°	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6	8279.6
2.5°	8291.5	8315.3	8251.8	8190.3	8134.7	8057.2	7987.7	7930.1	7890.4	7884.5	7864.6
5°	8319.3	8321.3	8200.2	8037.3	7878.5	7703.8	7523.1	7394.0	7272.9	7205.4	7171.7
7.5°	8339.2	8321.3	8102.9	7838.8	7533.0	7215.3	6897.7	6643.5	6447.0	6369.5	6399.3
10°	8331.2	8275.6	7956.0	7533.0	7088.3	6613.8	6157.0	5799.7	5472.1	5303.3	5307.3
12.5°	8287.5	8196.2	7737.5	7189.5	6536.3	5900.9	5202.0	4719.5	4340.3	4116.0	4046.5
15°	8249.8	8091.0	7481.4	6722.9	5910.9	5003.5	4151.7	3556.1	3238.3	3061.7	3059.7
17.5°	8210.1	7989.7	7201.5	6228.5	5192.2	4024.6	3131.1	2676.5	2527.5	2545.5	2515.6
20°	8168.4	7870.6	6909.6	5678.6	4316.5	3002.1	2344.9	2160.2	2202.0	2283.3	2295.3
22.5°	8120.7	7743.5	6595.8	5073.0	3395.2	2259.5	1902.1	1874.3	1981.5	2108.6	2126.5
25°	8047.3	7584.7	6200.7	4439.6	2618.9	1820.7	1665.8	1685.7	1791.0	1898.1	1910.1
27.5°	7944.0	7388.1	5801.6	3649.4	1967.7	1562.6	1522.9	1548.7	1600.3	1665.8	1681.7
30°	7805.0	7165.7	5343.0	2966.3	1576.5	1433.5	1417.6	1431.6	1461.3	1489.1	1497.1
32.5°	7666.0	6951.2	4880.4	2271.4	1405.7	1348.2	1332.3	1332.3	1332.3	1336.3	1338.2
35°	7537.0	6748.8	4384.0	1769.1	1316.4	1280.7	1258.8	1235.0	1231.0	1217.1	1217.1
37.5°	7465.5	6564.1	3855.9	1481.2	1250.8	1225.1	1195.2	1155.6	1133.7	1135.7	1131.7
40°	7479.5	6443.0	3375.4	1318.4	1197.3	1169.5	1123.8	1078.1	1064.3	1064.3	1060.3
42.5°	7636.3	6403.3	2914.7	1233.0	1145.6	1113.9	1056.3	1014.6	1006.6	1004.7	1008.7
45°	7997.6	6500.5	2501.8	1177.4	1102.0	1054.3	996.8	959.0	951.0	951.0	949.1
47.5°	8702.5	6816.2	2205.9	1141.7	1070.2	1008.7	949.1	911.3	897.5	893.5	893.5
50°	9798.5	7501.3	1985.5	1109.9	1030.5	966.9	905.4	861.7	839.8	837.9	835.9
52.5°	11321.4	8569.5	1900.1	1086.1	986.8	923.2	855.7	814.1	786.3	780.3	776.3
55°	13102.4	10060.6	2017.2	1068.2	941.2	873.6	804.1	760.4	734.6	722.7	720.8
57.5°	15165.4	11851.5	2462.1	1044.4	899.4	820.0	752.5	708.8	681.1	667.1	663.1
60°	17017.8	13692.1	3238.3	1030.5	863.7	762.4	693.0	653.3	627.4	613.6	611.5
62.5°	19053.0	15447.3	4165.6	1068.2	847.8	706.8	637.4	601.6	579.7	565.9	565.9
65°	21227.1	17204.5	4779.1	1195.2	871.6	663.1	577.8	548.0	528.1	518.2	516.2
67.5°	22692.4	17812.0	3937.2	1326.3	931.2	615.5	520.2	496.3	484.4	474.6	474.6
69°	22533.6	17043.6	2904.8	1360.1	949.1	591.7	488.4	470.6	454.7	450.7	446.7
70°	22031.3	16168.0	2434.3	1338.2	935.2	569.9	468.5	446.7	432.8	428.8	426.9
72.5°	19622.8	14021.7	1812.8	1163.5	796.2	494.4	415.0	395.1	383.2	377.2	377.2
75°	16303.1	11460.4	1415.7	925.3	623.4	416.9	355.4	339.5	329.6	325.6	323.6
77.5°	9137.3	6399.3	1016.6	724.7	472.5	337.6	297.9	283.9	274.0	270.1	270.1
80°	2545.5	1828.6	597.7	478.5	321.7	256.1	236.3	226.4	212.4	202.5	208.5
82.5°	959.0	792.2	341.5	287.9	204.5	170.8	164.8	156.8	150.9	137.0	137.0
85°	466.6	385.2	218.4	152.9	113.1	89.3	85.3	81.4	77.4	67.5	69.5
87.5°	160.8	170.8	95.3	55.6	33.7	21.8	17.9	9.9	9.9	9.9	9.9
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)