

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: P651456

Luminaire Tested: **GALN-SA6D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651456
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-SA6D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 38238.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

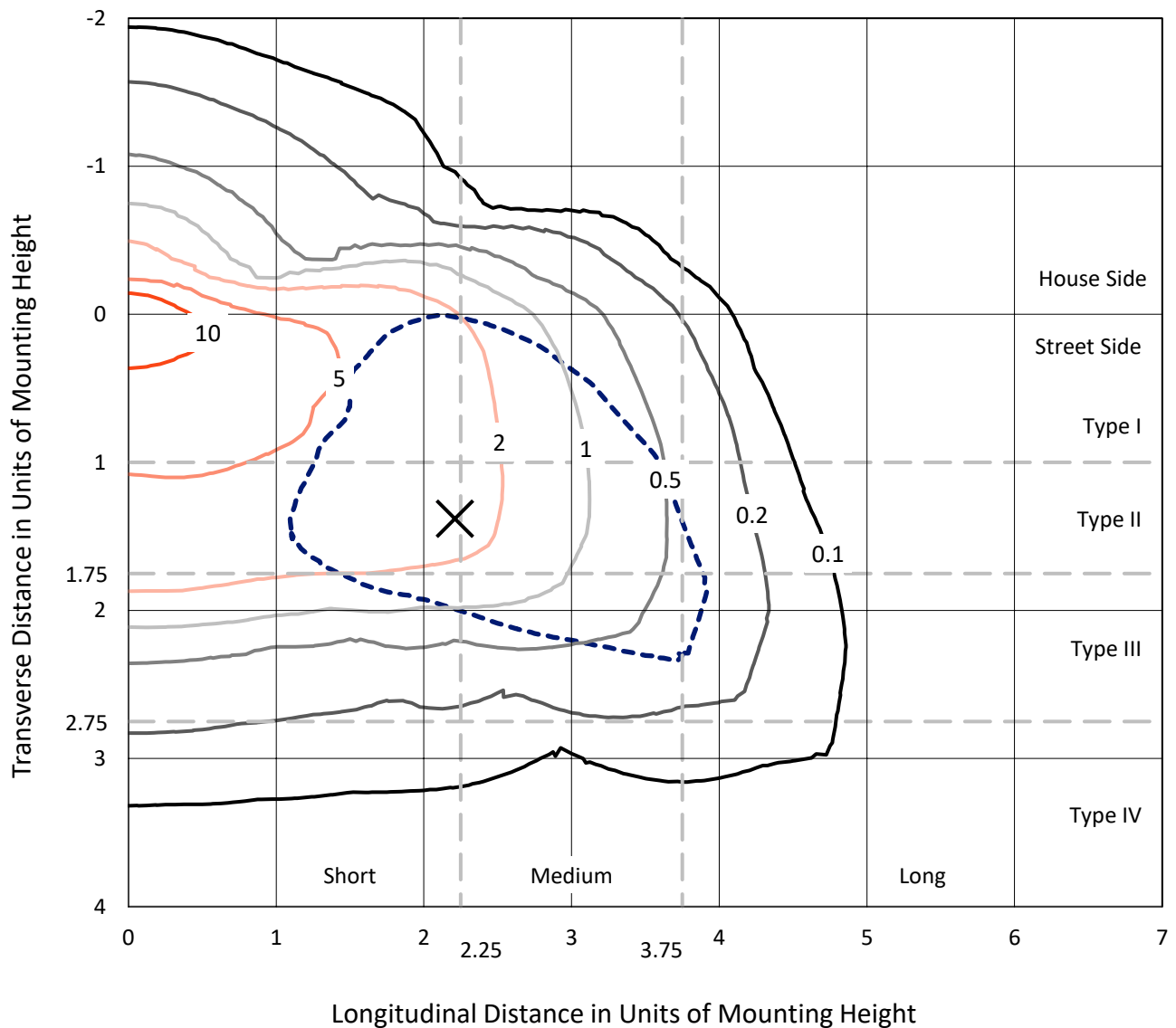
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

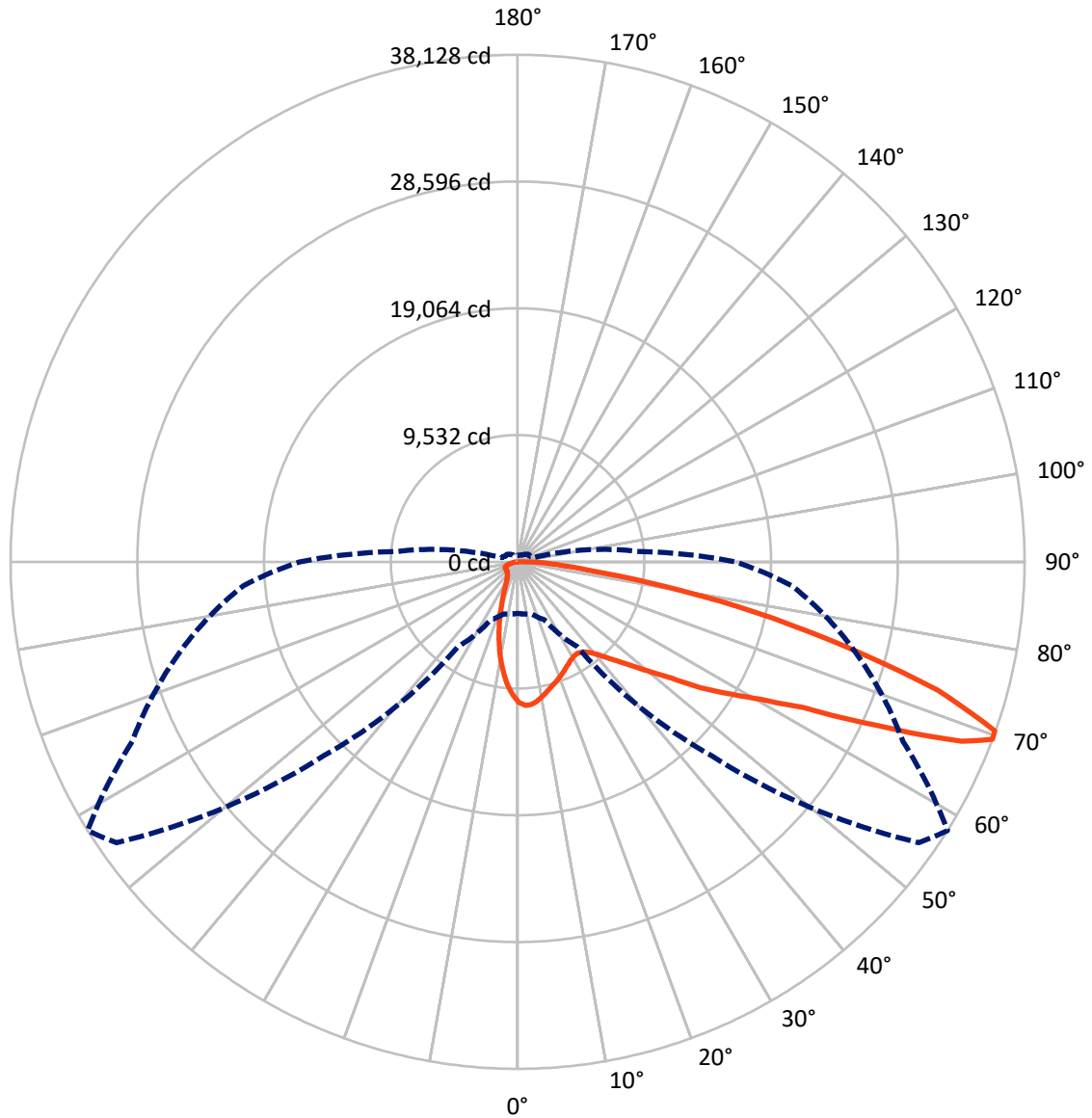
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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
House Side	Lumens	5603.9	0.0	5603.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32634.7	0.0	32634.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	38238.6	0.0	38238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.4	2.3
10°-20°	1970.5	5.2
20°-30°	2545.9	6.7
30°-40°	3306.7	8.6
40°-50°	4807.4	12.6
50°-60°	7671.0	20.1
60°-70°	10247.6	26.8
70°-80°	5907.3	15.4
80°-90°	884.8	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°	38238.6	100.0
0°-180°	38238.6	100.0

Coefficient of Utilization

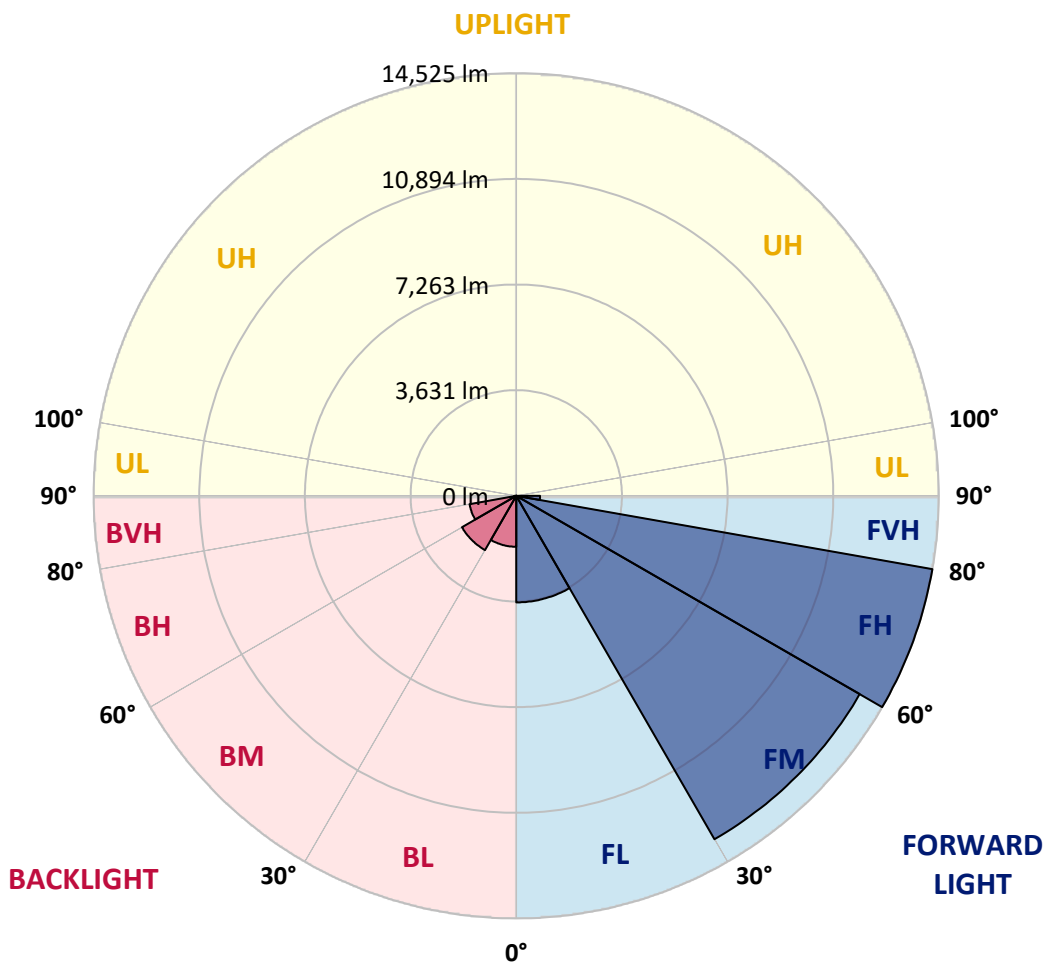


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3662.3	9.6			
FM (30°-60°)	13630.1	35.6			
FH (60°-80°)	14525.4	38.0			G5
FVH (80°-90°)	817.0	2.1			G5
BL (0°-30°)	1751.5	4.6	B3/2500		
BM (30°-60°)	2155.0	5.6	B2/2500		
BH (60°-80°)	1629.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	67.8	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9
2.5°	10959.3	10989.2	10980.6	10970.0	10952.9	10906.0	10829.2	10816.4	10767.4	10662.9	10532.8
5°	10790.8	10816.4	10818.5	10833.5	10854.8	10846.3	10790.8	10784.4	10711.9	10571.2	10353.6
7.5°	10212.9	10247.0	10321.7	10404.9	10479.4	10549.8	10566.9	10577.6	10532.8	10370.7	10080.6
10°	9562.5	9596.6	9630.7	9754.4	9937.8	10112.7	10257.7	10276.9	10287.5	10138.3	9784.3
12.5°	8841.7	8912.0	8984.6	9167.9	9413.1	9688.3	9944.2	9984.7	10057.2	9944.2	9528.4
15°	8229.6	8302.1	8406.6	8570.8	8867.3	9263.9	9624.3	9690.4	9833.3	9775.7	9289.5
17.5°	7805.2	7830.8	7903.3	8091.0	8410.8	8828.8	9310.8	9443.0	9671.2	9656.3	9084.7
20°	7470.4	7502.4	7547.2	7662.4	7995.1	8436.5	9018.6	9189.3	9498.5	9549.6	8882.1
22.5°	7329.7	7353.1	7346.7	7408.5	7634.6	8078.2	8722.3	8924.9	9344.9	9477.1	8694.5
25°	7338.2	7359.5	7327.5	7312.6	7447.0	7762.6	8413.0	8671.0	9221.2	9428.1	8523.9
27.5°	7481.0	7496.0	7436.3	7376.6	7387.3	7566.4	8157.1	8442.9	9116.8	9449.5	8381.0
30°	7673.0	7700.7	7662.4	7589.9	7510.9	7519.5	7992.9	8274.4	9067.7	9524.1	8312.8
32.5°	7920.4	7945.9	7928.9	7871.3	7769.0	7656.0	7952.4	8212.5	9072.0	9675.5	8297.8
35°	8180.6	8231.7	8259.5	8255.2	8172.0	7975.8	8112.3	8327.7	9174.3	9929.3	8385.3
37.5°	8474.8	8517.5	8636.9	8713.7	8636.9	8408.7	8472.7	8622.0	9400.4	10296.1	8577.2
40°	8760.6	8824.6	8999.5	9238.3	9208.4	9008.0	9022.9	9121.0	9799.2	10842.0	8952.5
42.5°	9059.2	9136.0	9440.9	9794.9	9865.3	9709.6	9750.1	9837.6	10366.4	11599.1	9596.6
45°	9443.0	9534.8	9910.1	10351.5	10628.7	10532.8	10648.0	10690.6	11125.7	12584.3	10445.4
47.5°	9937.8	10044.4	10507.2	11057.4	11449.8	11537.3	11737.7	11712.1	12066.1	13750.9	11545.8
50°	10771.6	10831.3	11268.6	11829.4	12368.9	12763.4	12981.0	13021.5	13232.6	14885.4	12776.2
52.5°	11763.3	11816.6	12132.2	12622.7	13298.7	14134.7	14672.1	14539.9	14591.1	16267.3	14215.8
55°	12878.7	12968.2	13168.6	13494.9	14371.4	15601.9	16681.0	16713.0	16145.7	17589.5	15595.5
57.5°	13742.3	13893.7	14237.0	14701.9	15813.1	17233.4	18683.5	18704.8	17979.7	19001.2	17118.1
60°	13307.2	13486.4	14271.2	15403.6	17704.6	20080.3	21076.2	20954.7	19764.7	20609.2	18975.7
62.5°	11430.6	11462.6	12603.5	14373.5	18286.8	23889.1	24637.6	24123.7	22146.8	22648.0	20862.9
65°	7397.9	7606.9	8511.1	10991.3	16373.9	26002.5	30877.6	29689.7	25486.4	24961.8	22443.2
67.5°	4670.3	4617.0	4992.3	6276.1	11262.2	24140.7	36202.6	36014.9	29853.9	26422.6	22065.7
69°	3872.7	3932.4	4060.4	4811.1	7749.8	20611.3	36831.7	38128.3	31971.5	26307.4	20694.5
70°	3512.4	3540.1	3674.4	4265.1	5979.8	17263.2	35799.5	38070.7	32803.3	25825.5	19700.8
72.5°	2787.2	2785.1	3015.5	3548.6	4469.9	9854.6	29395.4	33052.8	31873.5	23582.0	16278.0
75°	2117.6	2151.8	2405.5	3002.7	4118.0	5384.8	20513.3	25454.4	25456.6	18625.9	10157.4
77.5°	1526.9	1548.3	1844.6	2520.7	3879.1	4365.4	13663.4	18256.9	17163.0	8534.6	3192.4
80°	1000.2	1013.0	1239.0	1996.1	3497.4	4118.0	8101.7	11174.7	8095.2	2264.8	1055.6
82.5°	548.1	612.1	757.1	1292.4	2806.5	3804.5	4924.1	5655.6	3036.8	1008.7	550.2
85°	275.1	292.2	426.6	755.0	1834.1	3147.7	3429.2	3243.7	1567.5	501.2	285.8
87.5°	81.1	102.3	177.0	292.2	744.3	1640.0	1908.6	1712.4	603.5	181.2	59.7
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°	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9	10566.9
2.5°	10479.4	10441.1	10270.5	10116.9	9976.2	9826.9	9701.1	9590.2	9600.9	9603.0	9489.9
5°	10240.6	10153.2	9829.0	9526.2	9270.3	8946.1	8668.9	8489.8	8400.2	8280.8	8323.5
7.5°	9916.5	9748.0	9298.0	8794.8	8323.5	7903.3	7447.0	7133.4	6933.0	6738.9	6764.5
10°	9581.7	9310.8	8656.2	7990.8	7380.9	6709.1	6126.9	5627.9	5256.8	5118.2	5026.5
12.5°	9238.3	8882.1	8050.5	7165.5	6323.1	5519.1	4693.8	4158.5	3749.1	3531.5	3559.3
15°	8924.9	8491.9	7419.2	6340.1	5246.2	4288.6	3465.4	2955.8	2670.0	2610.3	2644.4
17.5°	8634.8	8067.5	6828.5	5538.3	4260.8	3215.9	2603.9	2315.9	2200.8	2168.9	2166.7
20°	8336.2	7707.1	6165.3	4681.0	3320.4	2493.0	2136.8	2002.5	1981.1	1993.9	1996.1
22.5°	8033.4	7261.4	5482.8	3830.1	2644.4	2038.8	1868.1	1831.9	1848.9	1878.8	1883.1
25°	7754.0	6869.0	4826.0	3083.7	2111.2	1791.3	1708.2	1708.2	1746.6	1791.3	1793.5
27.5°	7523.8	6489.4	4171.3	2448.2	1767.9	1612.2	1584.5	1599.4	1652.7	1686.9	1689.0
30°	7333.9	6135.4	3552.9	1962.0	1554.7	1469.3	1462.9	1488.6	1526.9	1558.9	1561.1
32.5°	7191.1	5824.1	2975.0	1648.4	1407.5	1360.6	1358.5	1377.6	1399.0	1407.5	1416.0
35°	7135.6	5566.0	2446.0	1450.1	1309.4	1279.6	1279.6	1277.4	1286.0	1290.2	1294.5
37.5°	7180.4	5367.7	2036.6	1322.2	1236.9	1215.6	1202.8	1190.0	1185.7	1185.7	1187.8
40°	7370.2	5263.2	1731.6	1239.0	1185.7	1153.7	1130.3	1115.3	1100.4	1104.7	1108.9
42.5°	7773.2	5282.4	1524.8	1183.5	1140.9	1096.2	1062.0	1044.9	1034.3	1047.1	1044.9
45°	8415.1	5474.3	1392.6	1145.2	1096.2	1038.6	1006.6	989.5	989.5	1008.7	1015.1
47.5°	9313.0	5841.1	1322.2	1115.3	1062.0	993.8	961.8	949.0	953.3	985.2	987.4
50°	10409.1	6478.7	1309.4	1100.4	1044.9	961.8	925.5	912.7	923.4	957.6	961.8
52.5°	11618.2	7299.8	1371.3	1102.6	1030.1	942.6	895.7	876.5	887.2	914.8	923.4
55°	13051.4	8327.7	1531.2	1111.0	1008.7	931.9	874.4	831.7	844.5	863.7	865.8
57.5°	14514.3	9624.3	1812.7	1113.2	991.6	912.7	838.1	782.6	782.6	795.4	801.8
60°	16301.4	11036.1	2183.7	1115.3	993.8	885.0	789.0	727.2	718.7	725.1	727.2
62.5°	18075.7	12217.5	2245.6	1108.9	1015.1	857.3	735.7	671.8	656.8	654.7	650.4
65°	18858.3	11997.9	1840.4	1079.1	1038.6	840.2	693.1	618.5	592.8	584.3	584.3
67.5°	17583.0	10148.9	1384.0	1038.6	1023.7	823.2	652.5	573.6	543.8	526.7	526.7
69°	16384.5	9027.2	1243.3	1010.9	985.2	795.4	627.0	550.2	513.9	494.8	488.4
70°	15459.0	8255.2	1183.5	987.4	949.0	763.5	607.8	533.1	492.7	471.3	467.0
72.5°	12337.0	6476.6	1036.4	897.9	808.3	641.9	539.5	479.8	441.4	418.0	411.6
75°	7110.0	3510.2	859.4	780.5	650.4	499.0	456.4	418.0	388.1	366.8	360.4
77.5°	2188.0	1356.3	622.7	616.3	477.7	386.0	364.7	349.8	328.4	304.9	300.7
80°	921.2	691.0	422.3	415.9	317.7	268.7	262.3	260.2	251.6	232.5	226.1
82.5°	505.4	390.2	294.3	255.9	191.9	155.7	162.1	164.2	157.8	138.6	125.8
85°	247.3	213.3	142.9	115.1	87.5	55.4	53.3	64.0	59.7	42.6	46.9
87.5°	49.0	59.7	38.3	17.1	8.5	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)