

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: P299132

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39758 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

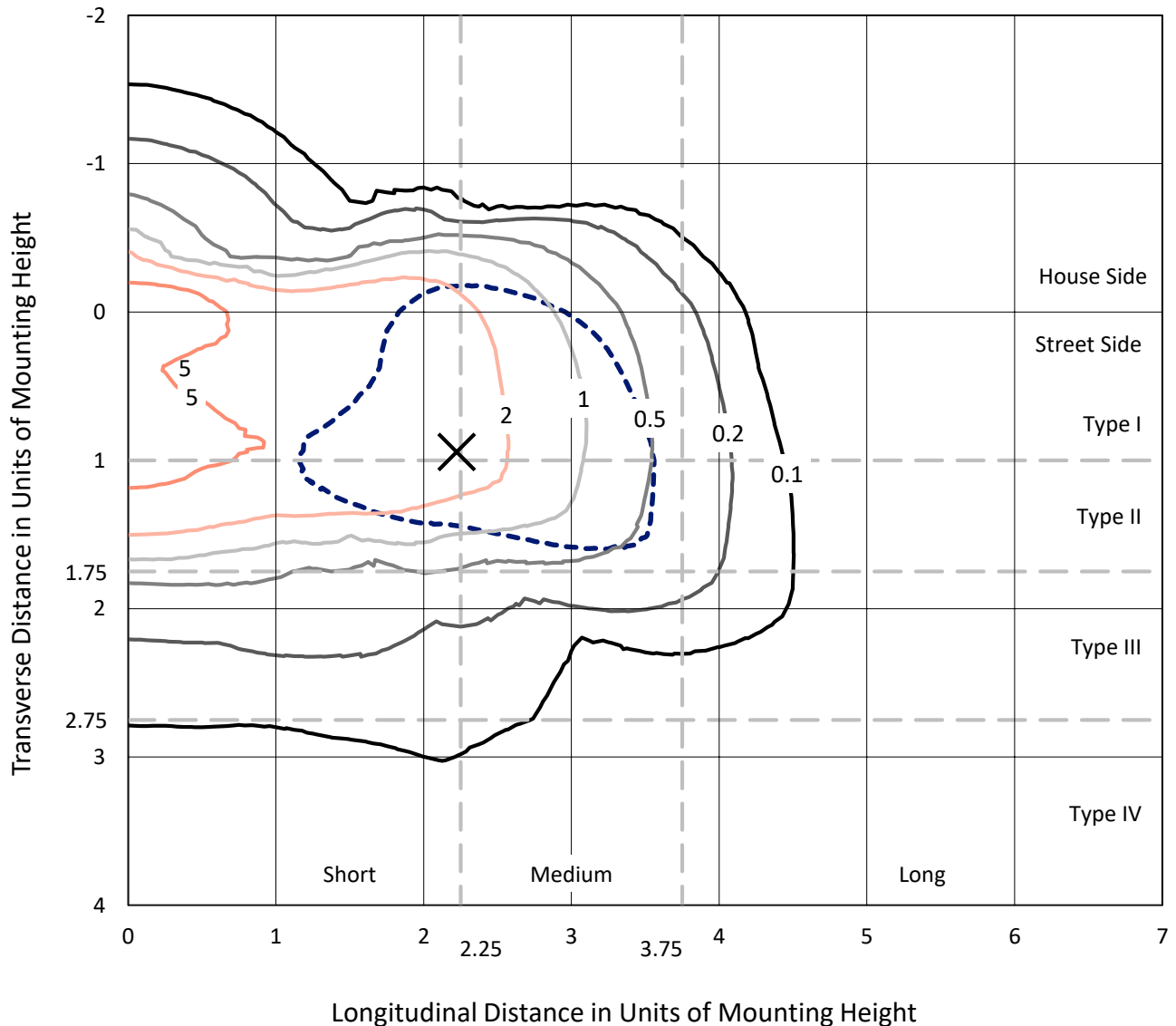
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

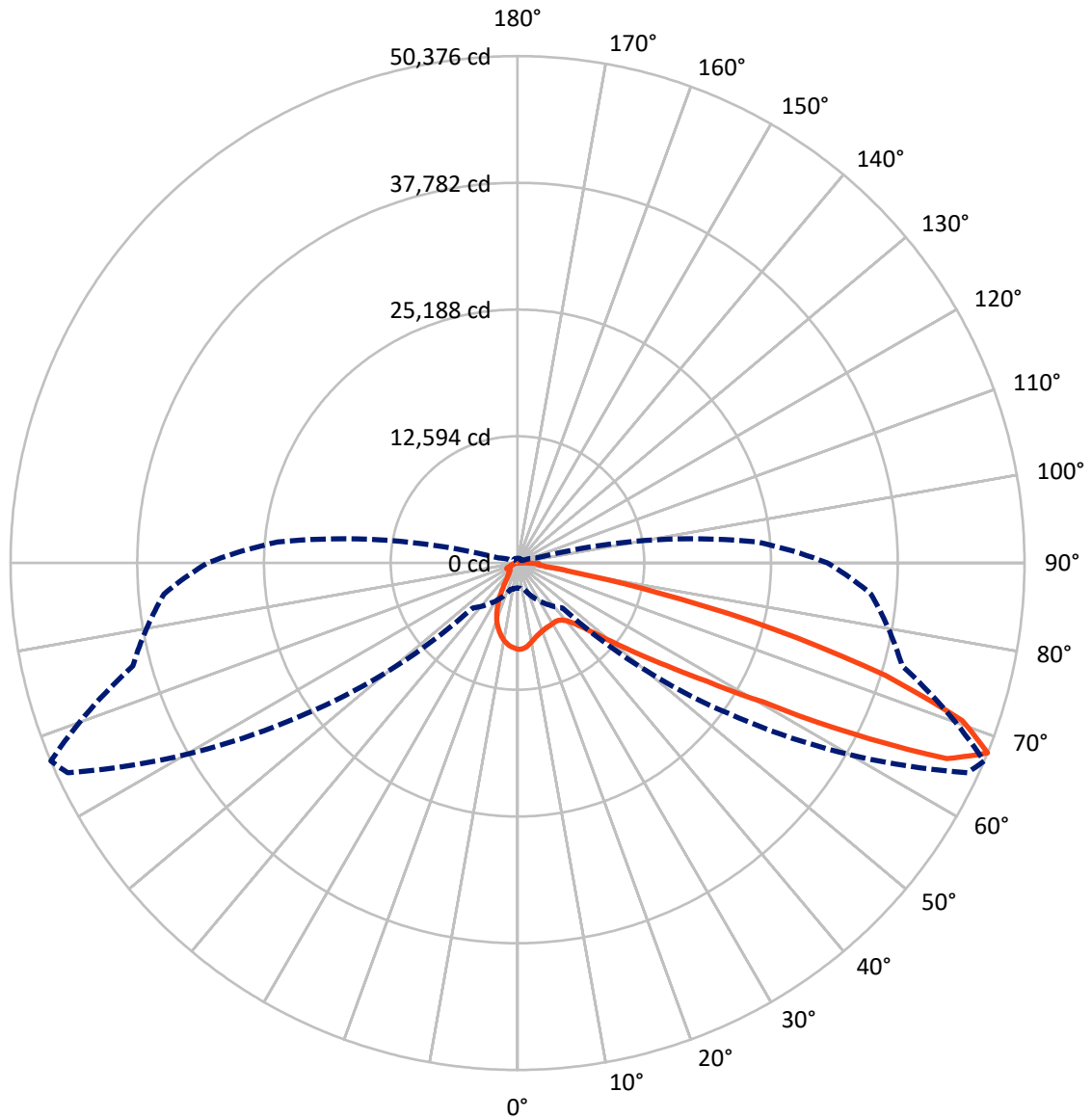
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6587.5	0.0	6587.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	33170.6	0.0	33170.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	39758.0	0.0	39758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.6	1.8
10°-20°	1692.9	4.3
20°-30°	2294.7	5.8
30°-40°	3262.2	8.2
40°-50°	5457.8	13.7
50°-60°	8634.2	21.7
60°-70°	10999.1	27.7
70°-80°	5761.3	14.5
80°-90°	924.0	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°	39758.0	100.0
0°-180°	39758.0	100.0

Coefficient of Utilization



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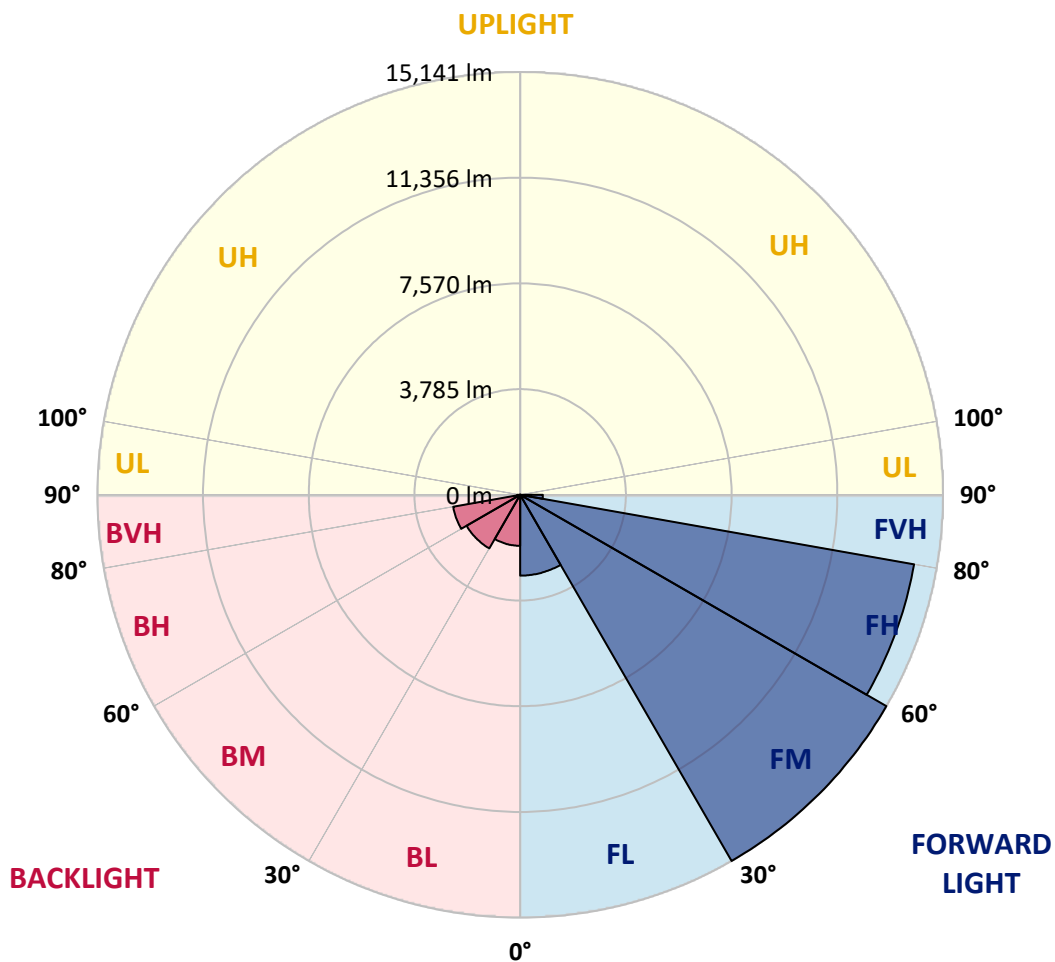
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2893.4	7.3			
FM (30°-60°)	15140.7	38.1			
FH (60°-80°)	14324.0	36.0			G5
FVH (80°-90°)	812.5	2.0			G5
BL (0°-30°)	1825.9	4.6	B3/2500		
BM (30°-60°)	2213.6	5.6	B2/2500		
BH (60°-80°)	2436.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	111.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7
2.5°	8222.8	8236.5	8279.7	8307.1	8430.6	8483.6	8520.8	8558.1	8563.9	8581.6	8563.9
5°	7360.1	7389.5	7469.9	7560.1	7799.3	7987.5	8185.6	8391.4	8428.7	8562.0	8599.2
7.5°	6691.6	6683.7	6750.4	6858.2	7103.3	7364.1	7711.1	8120.9	8201.2	8501.2	8646.3
10°	6203.4	6197.5	6268.1	6379.8	6613.1	6860.2	7252.3	7813.0	7926.7	8405.1	8691.4
12.5°	5842.6	5844.6	5915.2	6038.7	6275.9	6524.9	6922.9	7515.0	7660.1	8293.4	8738.4
15°	5603.4	5619.1	5676.0	5807.3	6038.7	6287.7	6677.8	7291.5	7454.2	8205.2	8791.4
17.5°	5523.0	5548.5	5568.1	5664.2	5862.2	6111.2	6493.5	7126.8	7299.4	8144.4	8838.4
20°	5597.5	5627.0	5589.7	5623.0	5748.5	5968.1	6348.5	6997.4	7173.9	8075.8	8844.3
22.5°	5917.1	5944.6	5834.8	5738.7	5730.9	5864.2	6228.9	6895.5	7077.8	8024.8	8846.3
25°	6479.8	6497.5	6313.2	6089.7	5872.0	5826.9	6144.6	6824.9	7019.0	7979.7	8809.0
27.5°	7170.0	7183.7	6971.9	6642.5	6205.3	5915.2	6115.1	6783.7	6985.7	7940.5	8746.3
30°	8009.1	8073.8	7789.5	7373.9	6736.7	6175.9	6174.0	6762.1	6948.4	7873.8	8622.8
32.5°	8867.8	8895.3	8699.2	8277.7	7452.3	6634.7	6338.7	6777.8	6938.6	7793.4	8465.9
35°	9738.4	9773.6	9646.2	9307.0	8430.6	7307.2	6660.2	6870.0	6999.4	7766.0	8356.1
37.5°	10865.7	10912.8	10736.3	10344.2	9620.7	8218.9	7195.4	7101.3	7185.6	7844.4	8322.8
40°	12647.9	12626.3	12110.7	11526.4	10922.6	9385.4	7960.1	7493.5	7542.5	8097.3	8424.7
42.5°	14722.2	14669.3	13781.1	12863.6	12353.8	10797.1	8971.8	8173.8	8164.0	8595.3	8783.5
45°	16377.0	16333.8	15533.9	14402.6	13994.8	12404.8	10279.5	9187.4	9114.9	9385.4	9446.2
47.5°	17273.0	17274.9	16814.2	15890.8	15880.9	14447.7	11959.7	10654.0	10528.5	10655.9	10591.2
50°	16959.3	17000.5	16951.4	16657.4	17602.4	17125.9	14153.7	12698.9	12446.0	12571.4	12322.4
52.5°	15441.8	15494.7	15784.9	16235.8	18325.8	20362.9	17376.9	15239.8	14945.7	14900.6	14624.2
55°	12751.8	12816.5	13408.6	14634.0	17723.9	22537.2	22462.7	18478.8	18010.2	17584.7	17467.1
57.5°	8789.4	8897.3	9850.1	11669.6	15777.0	23194.0	28519.0	23096.0	22143.1	20657.0	20684.4
60°	4954.5	5079.9	6203.4	7856.2	11848.0	22480.4	33126.5	30089.5	28077.9	24254.7	24458.6
62.5°	3150.7	3286.0	4138.8	5458.3	7109.2	18637.6	35014.6	39812.2	37257.5	28689.6	28889.6
65°	2550.8	2609.6	3011.5	4505.5	5162.3	11228.4	33581.3	47821.3	46868.4	34318.5	33385.3
67.5°	2490.0	2509.6	2717.4	3782.0	4950.5	6311.2	26785.9	49319.2	50375.9	39574.9	35257.7
70°	2460.6	2529.2	3062.5	3609.5	4740.8	5323.1	16096.6	45213.6	46882.1	40949.3	32765.7
72.5°	1194.0	1190.1	1541.0	3264.4	5340.7	5521.1	8269.9	36583.0	38257.4	35477.3	26925.1
75°	962.7	880.3	841.1	1196.0	5134.8	5701.5	5270.1	25172.3	26383.9	23786.1	16551.5
77.5°	913.6	815.6	747.0	749.0	2170.4	6046.5	4464.3	13932.1	14285.0	10744.1	4534.9
80°	756.8	666.6	617.6	696.0	1050.9	5758.3	4827.0	6305.3	5785.8	2639.0	1509.7
82.5°	525.4	478.4	464.7	584.3	841.1	4103.6	5613.2	3387.9	2840.9	1321.5	931.3
85°	335.3	286.2	317.6	425.5	654.8	1894.0	5781.8	2640.9	2099.8	839.1	525.4
87.5°	154.9	125.5	156.8	235.3	427.4	652.9	5501.5	2966.4	2162.6	443.1	331.3
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°	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7	8575.7
2.5°	8579.6	8542.4	8513.0	8458.1	8397.3	8338.5	8285.5	8218.9	8199.3	8181.6	8209.1
5°	8607.1	8569.8	8462.0	8293.4	8107.1	7932.6	7758.1	7609.1	7517.0	7466.0	7495.4
7.5°	8648.3	8595.3	8371.8	8062.0	7726.8	7420.9	7105.3	6852.3	6666.1	6577.8	6603.3
10°	8685.5	8583.6	8218.9	7754.2	7264.1	6809.2	6311.2	5899.5	5593.6	5432.9	5472.1
12.5°	8701.2	8538.5	8005.2	7369.9	6697.4	6030.8	5297.6	4681.9	4242.8	4082.0	4048.7
15°	8716.9	8487.5	7769.9	6932.7	6013.2	5070.1	4042.8	3305.6	2940.9	2860.5	2842.9
17.5°	8720.8	8399.3	7503.3	6458.3	5211.3	3927.1	2764.5	2295.9	2297.8	2427.2	2442.9
20°	8679.6	8267.9	7179.8	5868.1	4250.6	2715.4	1897.9	1817.5	2113.5	2437.0	2476.3
22.5°	8585.5	8093.4	6813.1	5179.9	3150.7	1788.1	1468.5	1556.7	1939.0	2335.1	2380.2
25°	8465.9	7881.7	6379.8	4382.0	2086.1	1278.3	1231.3	1339.1	1597.9	1862.6	1888.1
27.5°	8303.2	7630.7	5893.6	3468.3	1354.8	1052.8	1084.2	1156.8	1262.6	1380.3	1392.0
30°	8093.4	7330.7	5374.0	2529.2	1023.4	947.0	992.1	1031.3	1076.4	1143.0	1148.9
32.5°	7852.2	7042.5	4840.7	1746.9	907.8	892.1	927.4	947.0	982.3	1023.4	1027.4
35°	7650.3	6768.0	4287.9	1235.2	858.7	850.9	874.4	882.3	915.6	960.7	964.6
37.5°	7534.6	6544.5	3717.3	996.0	825.4	813.7	827.4	827.4	874.4	941.1	950.9
40°	7542.5	6421.0	3146.8	899.9	798.0	782.3	784.2	784.2	845.0	917.6	923.4
42.5°	7756.2	6452.4	2640.9	862.7	776.4	758.8	749.0	754.8	805.8	852.9	856.8
45°	8258.1	6673.9	2166.5	839.1	754.8	749.0	727.4	725.4	745.0	766.6	766.6
47.5°	9081.5	7111.1	1844.9	823.5	737.2	735.2	709.7	684.3	682.3	690.1	690.1
50°	10420.6	7864.0	1629.3	805.8	725.4	709.7	680.3	641.1	627.4	633.3	633.3
52.5°	12428.3	9207.0	1546.9	782.3	699.9	674.5	641.1	601.9	590.1	592.1	592.1
55°	15061.4	11269.6	1535.2	754.8	672.5	631.3	603.9	574.5	560.7	564.7	564.7
57.5°	18278.8	14122.3	1744.9	711.7	635.2	588.2	572.5	552.9	543.1	549.0	547.0
60°	22190.2	17855.3	2588.0	666.6	598.0	549.0	549.0	533.3	525.4	531.3	529.4
62.5°	26695.7	22143.1	3638.9	633.3	558.8	517.6	525.4	517.6	509.8	513.7	511.7
65°	30691.4	24937.0	3407.5	607.8	519.6	488.2	501.9	498.0	492.1	496.0	494.1
67.5°	30807.1	23901.8	1913.6	580.3	482.3	458.8	478.4	476.4	472.5	476.4	474.5
70°	27493.6	20182.5	1078.3	529.4	443.1	423.5	450.9	449.0	445.1	452.9	450.9
72.5°	22027.5	14645.8	788.2	466.6	403.9	386.2	417.6	415.6	415.6	427.4	421.5
75°	12675.3	7536.6	629.4	400.0	362.7	349.0	376.4	378.4	382.3	398.0	386.2
77.5°	3613.4	2348.8	513.7	339.2	311.7	305.9	333.3	337.2	339.2	356.8	341.1
80°	1343.0	1082.3	423.5	284.3	254.9	256.8	282.3	288.2	290.2	307.8	288.2
82.5°	856.8	713.7	343.1	219.6	200.0	198.0	229.4	237.2	237.2	239.2	227.4
85°	500.0	427.4	258.8	158.8	141.2	135.3	170.6	184.3	178.4	174.5	166.7
87.5°	335.3	294.1	158.8	88.2	76.5	72.5	100.0	109.8	105.9	100.0	94.1
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)