

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: P269633

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA 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: 46236.6 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

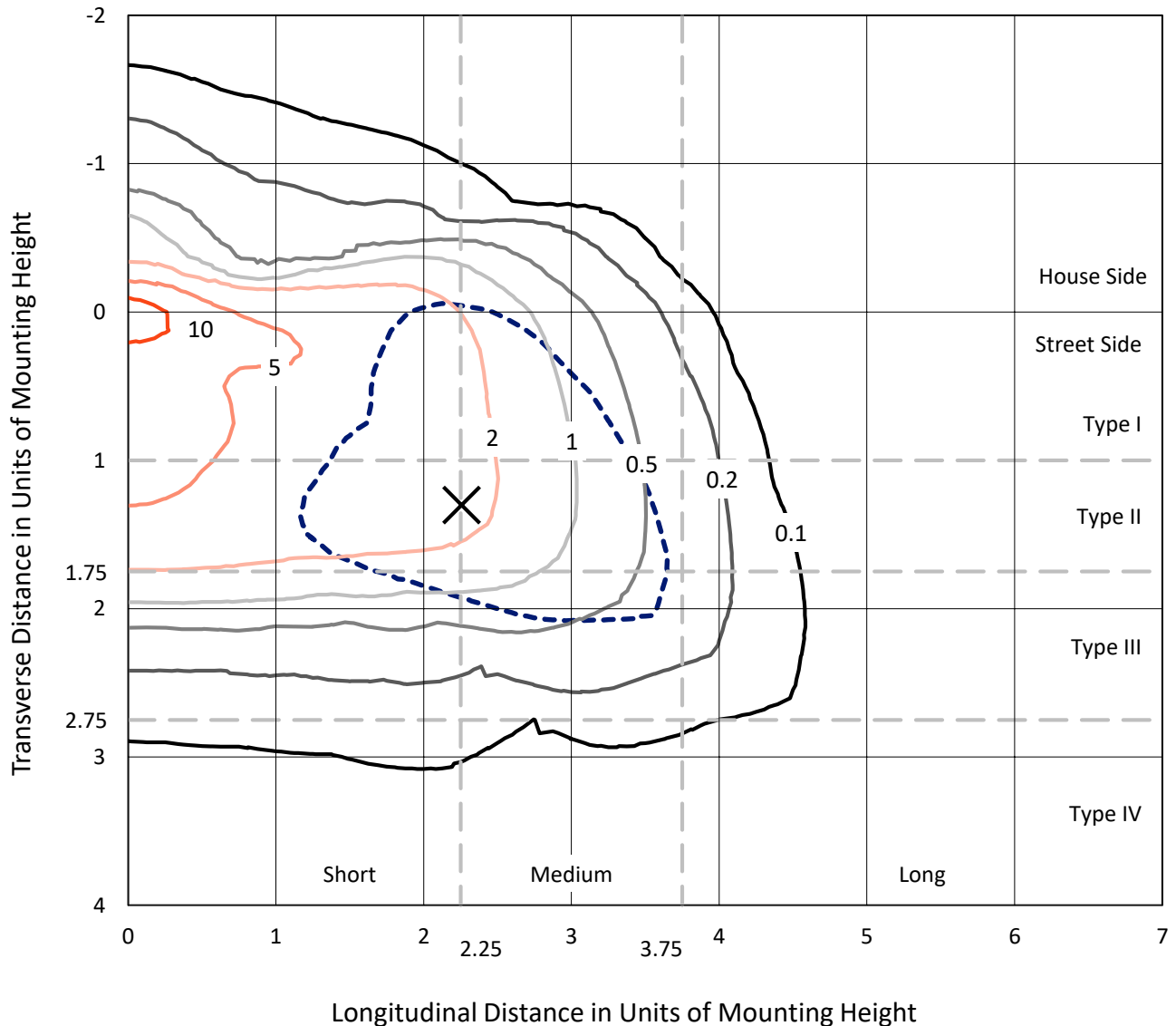
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

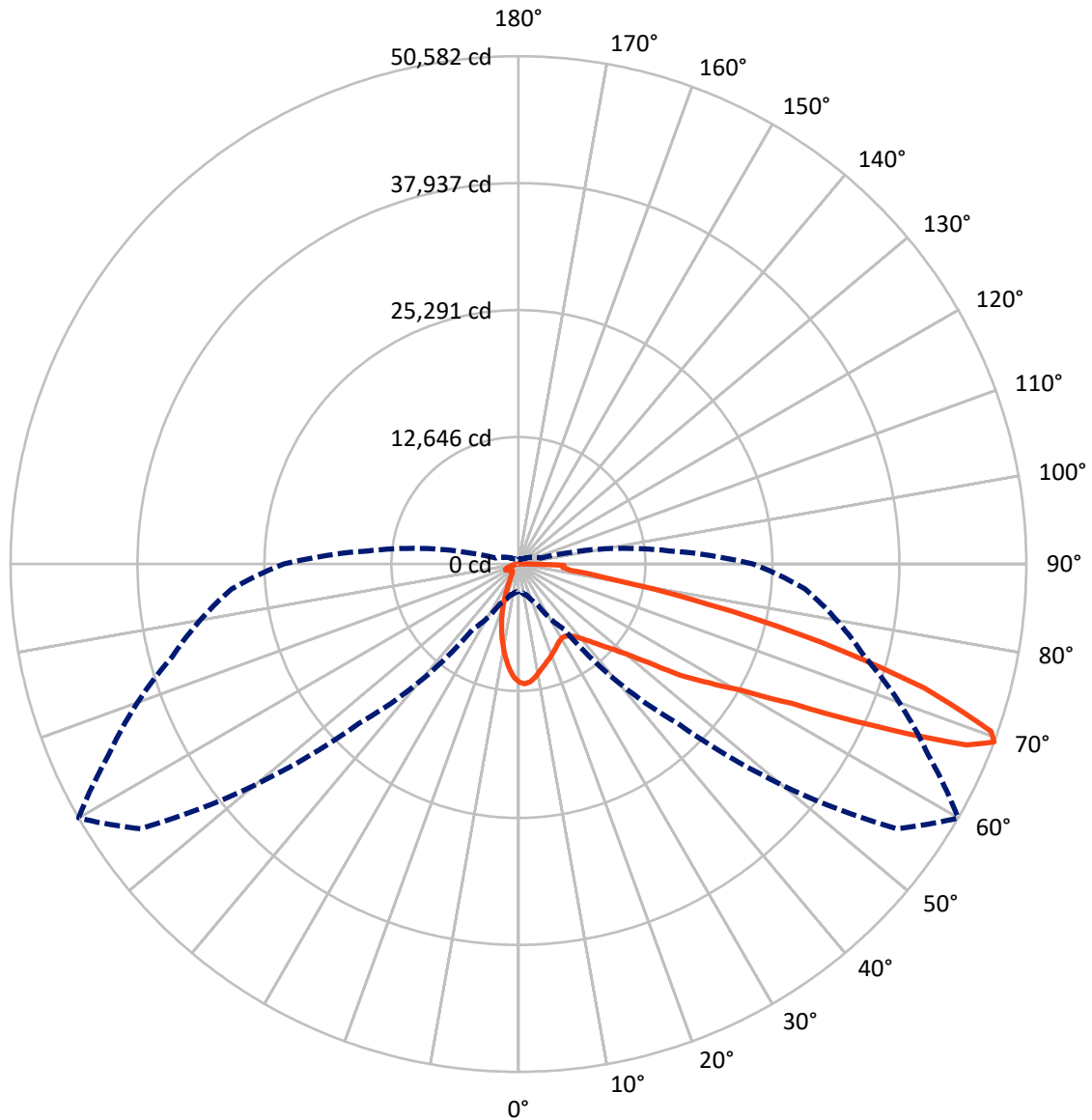
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6578.0	0.0	6578.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39658.6	0.0	39658.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	46236.6	0.0	46236.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.2	2.2
10°-20°	2122.5	4.6
20°-30°	2704.4	5.8
30°-40°	3717.8	8.0
40°-50°	6032.6	13.0
50°-60°	9674.7	20.9
60°-70°	12876.3	27.8
70°-80°	6952.2	15.0
80°-90°	1160.0	2.5
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°	46236.6	100.0
0°-180°	46236.6	100.0

Coefficient of Utilization



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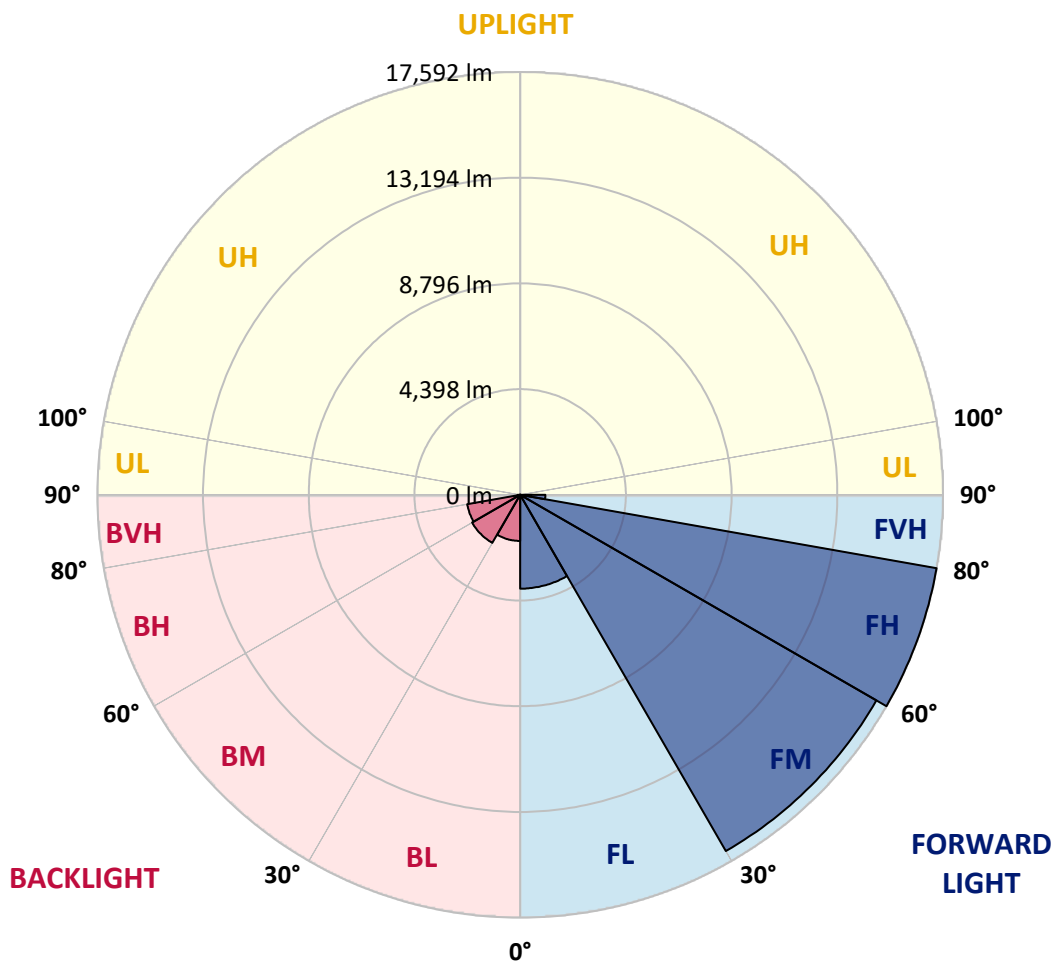
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3904.0	8.4			
FM	(30°-60°)	17114.1	37.0			
FH	(60°-80°)	17592.1	38.0			G5
FVH	(80°-90°)	1048.3	2.3			G5
BL	(0°-30°)	1919.0	4.2	B3/2500		
BM	(30°-60°)	2311.0	5.0	B2/2500		
BH	(60°-80°)	2236.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	111.7	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8
2.5°	12023.0	12049.9	12038.6	12032.0	12052.0	12020.8	11956.0	11935.9	11904.6	11830.9	11705.9
5°	11571.8	11652.3	11647.8	11708.1	11808.6	11835.3	11806.3	11810.8	11752.7	11661.2	11453.5
7.5°	10792.3	10825.8	10843.7	10975.5	11158.7	11306.1	11431.1	11471.4	11444.5	11366.3	11098.3
10°	9988.3	10015.1	10057.6	10211.7	10444.0	10647.3	10884.0	11020.1	11078.3	11064.9	10765.6
12.5°	9298.1	9324.9	9380.8	9555.0	9831.9	10082.0	10426.1	10595.8	10734.2	10816.9	10495.3
15°	8679.5	8737.5	8791.2	8992.2	9302.6	9630.9	10019.5	10234.0	10448.4	10633.7	10256.3
17.5°	8197.0	8255.1	8286.3	8469.5	8800.1	9202.1	9657.7	9910.1	10178.2	10482.0	10019.5
20°	7917.8	7944.6	7931.2	8033.9	8331.1	8757.5	9298.1	9590.8	9914.6	10339.0	9782.8
22.5°	7839.7	7841.8	7792.7	7781.6	7973.6	8333.2	8913.9	9269.2	9666.7	10245.1	9579.5
25°	8029.5	8022.9	7888.7	7779.3	7799.4	8009.4	8543.2	8956.5	9459.0	10225.0	9423.2
27.5°	8451.7	8471.7	8272.9	8067.5	7864.2	7857.6	8261.8	8697.3	9289.3	10316.7	9356.1
30°	9043.4	9077.1	8864.8	8603.4	8221.6	7906.6	8152.3	8543.2	9184.2	10506.4	9345.0
32.5°	9691.3	9726.9	9566.1	9291.3	8791.2	8210.4	8228.3	8556.5	9179.7	10772.3	9421.0
35°	10381.4	10421.5	10339.0	10106.7	9550.5	8771.1	8518.6	8773.2	9324.9	11178.8	9624.3
37.5°	11152.0	11214.5	11236.8	11015.6	10421.5	9510.3	8994.4	9184.2	9653.2	11743.8	9997.1
40°	12262.0	12349.1	12342.4	12025.3	11420.0	10508.7	9729.3	9778.3	10164.7	12498.7	10593.5
42.5°	14388.3	14406.2	13850.0	13159.9	12518.9	11558.4	10595.8	10555.7	10870.5	13454.8	11471.4
45°	17093.0	17019.4	15782.1	14448.6	13666.9	12764.6	11723.7	11527.2	11766.2	14620.5	12570.3
47.5°	19337.8	19168.0	17604.5	15764.1	14882.0	14075.6	13048.2	12704.2	12836.1	15942.8	13990.7
50°	20117.3	19990.0	18694.4	16858.6	16032.2	15674.9	14678.7	14191.8	14227.4	17519.7	15654.8
52.5°	19949.7	19932.0	19067.6	17580.0	17108.7	17354.4	16988.0	16329.2	15980.8	19270.8	17450.5
55°	19554.5	19592.5	19279.8	18419.7	18339.3	18975.9	20005.7	19518.7	18435.5	21037.4	19306.6
57.5°	18180.7	18279.2	18967.1	19476.2	20320.5	21267.6	22435.7	22297.2	21077.7	22947.2	21513.1
60°	14647.5	14875.3	16720.2	19270.8	22359.7	25321.3	25844.0	25522.4	23802.6	25316.9	24428.0
62.5°	10263.0	10499.7	12693.1	16684.4	22024.6	29900.1	31937.0	30550.0	27715.6	28807.8	28200.3
65°	5494.5	5608.4	7283.5	11576.3	18593.9	30844.8	40842.1	38731.4	33911.5	33111.9	31427.8
67.5°	3030.9	3093.5	3734.4	5845.1	11909.1	27161.8	46515.1	48109.8	41655.0	35977.5	30840.4
69°	2740.5	2798.6	3218.4	4426.8	7969.1	22457.9	45961.3	50582.4	45050.0	35693.9	28669.3
70°	2680.3	2733.8	3111.3	4080.6	6450.4	18511.4	44105.3	49950.3	45858.6	34677.5	26775.4
72.5°	2412.2	2470.2	2836.6	3665.3	5512.3	9228.8	34936.6	42233.5	41635.0	30067.6	20309.3
75°	2249.1	2302.7	2923.7	3589.3	5277.8	5840.6	23032.1	31126.4	30605.9	21033.0	10950.9
77.5°	962.7	958.2	1355.7	3037.6	5356.0	5655.3	12375.9	19445.0	17740.7	8989.9	3144.7
80°	643.2	632.0	643.2	893.5	4911.6	5686.5	6483.8	9869.9	7455.5	2291.5	1550.0
82.5°	554.0	545.0	565.0	545.0	1726.5	6490.7	5512.3	5248.7	3544.6	1302.2	768.3
85°	372.9	357.3	486.9	489.1	815.2	5766.8	6209.2	4433.6	2867.7	772.8	379.8
87.5°	178.8	174.2	283.7	346.1	478.0	2343.0	6966.4	4543.0	2892.5	395.3	180.9
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°	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8	11781.8
2.5°	11667.8	11576.3	11486.9	11379.8	11268.1	11143.0	11080.5	11017.9	11002.4	10984.5	10922.0
5°	11346.2	11216.6	10993.4	10747.7	10488.6	10236.1	10044.0	9923.4	9831.9	9785.1	9702.5
7.5°	10930.8	10740.9	10350.1	9925.7	9490.2	9092.6	8748.7	8532.0	8326.5	8230.5	8121.0
10°	10535.5	10251.8	9644.4	9019.0	8393.6	7792.7	7227.7	6827.8	6472.7	6273.9	6133.3
12.5°	10196.0	9807.3	8965.4	8118.8	7261.2	6405.8	5559.3	4893.6	4337.5	4044.9	3895.2
15°	9865.5	9396.5	8319.8	7245.5	6144.3	4980.7	3868.5	3113.5	2653.5	2470.2	2407.7
17.5°	9566.1	8965.4	7672.2	6365.5	4991.9	3584.7	2599.9	2184.4	2007.9	1947.6	1927.6
20°	9242.3	8529.8	6999.9	5445.3	3790.3	2506.0	2030.3	1847.2	1775.6	1757.8	1748.8
22.5°	8929.6	8100.9	6356.5	4460.4	2722.7	1934.2	1744.4	1668.4	1657.3	1673.0	1673.0
25°	8663.9	7716.8	5661.9	3430.6	1999.0	1628.3	1561.3	1543.4	1585.8	1643.9	1655.0
27.5°	8465.0	7401.9	4922.6	2532.9	1592.4	1416.1	1413.8	1442.9	1547.8	1659.4	1681.8
30°	8328.7	7102.5	4132.1	1827.1	1335.6	1246.3	1282.1	1344.6	1498.7	1657.3	1699.8
32.5°	8259.6	6881.5	3307.7	1413.8	1143.5	1094.5	1154.7	1230.7	1382.5	1530.0	1585.8
35°	8313.2	6718.5	2530.5	1179.3	1009.5	971.5	1034.0	1107.8	1197.3	1259.8	1302.2
37.5°	8514.1	6653.7	1909.6	1056.4	918.0	882.2	931.4	973.9	1009.5	1027.4	1047.6
40°	8947.5	6722.8	1530.0	994.0	866.7	821.9	842.0	857.7	880.0	897.9	906.7
42.5°	9586.3	6930.7	1371.4	969.4	839.7	775.1	770.6	777.3	806.3	839.7	846.6
45°	10479.6	7296.9	1360.3	985.0	826.4	737.1	716.9	725.9	770.6	821.9	830.8
47.5°	11621.0	7855.3	1449.5	1032.0	837.6	716.9	683.5	694.6	750.4	819.8	830.8
50°	13003.5	8634.8	1599.3	1101.1	886.6	721.3	672.3	678.9	737.1	813.0	824.1
52.5°	14636.3	9740.3	1762.2	1168.2	938.1	750.4	681.3	665.6	719.3	786.1	799.6
55°	16452.1	11158.7	1929.7	1228.4	964.9	786.1	699.2	647.7	685.6	741.6	752.7
57.5°	18681.2	13142.1	2220.2	1286.6	982.7	810.8	716.9	629.8	643.2	683.5	692.5
60°	21698.6	15947.3	2731.6	1382.5	1023.0	819.8	714.7	614.3	600.8	623.2	627.6
62.5°	25314.6	18993.9	3158.3	1503.1	1090.0	826.4	701.3	603.0	565.0	565.0	569.5
65°	27461.0	19809.1	2921.5	1603.7	1145.8	819.8	685.6	591.9	538.3	513.7	515.9
67.5°	25640.7	17421.4	2503.8	1623.7	1143.5	788.4	661.2	571.9	511.5	473.4	471.3
69°	23360.3	15031.6	2316.2	1570.1	1090.0	748.2	629.8	549.5	491.4	451.2	449.0
70°	21522.1	13573.1	2193.3	1512.0	1032.0	719.3	605.3	529.3	475.7	437.7	433.3
72.5°	15648.0	8893.8	1874.0	1299.8	851.0	603.0	522.6	464.6	424.4	402.0	397.6
75°	7819.6	4241.4	1521.0	1054.3	652.2	482.4	428.9	388.6	368.6	364.1	361.8
77.5°	2568.6	1943.2	1087.7	786.1	484.6	377.5	346.1	317.1	312.7	326.1	321.7
80°	1411.5	1130.2	690.2	520.4	330.5	276.9	272.5	256.8	263.6	285.9	281.3
82.5°	719.3	587.4	426.6	312.7	223.4	198.7	216.6	207.7	216.6	236.8	234.5
85°	355.1	321.7	270.3	189.8	147.4	127.3	154.1	160.7	165.3	180.9	180.9
87.5°	205.5	189.8	142.9	89.3	73.8	67.1	89.3	87.1	102.8	111.7	109.5
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)