

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: P269551

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL2-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37658.5 lumens  
Efficiency: N/A  
Efficacy: 73.7 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): 511  
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

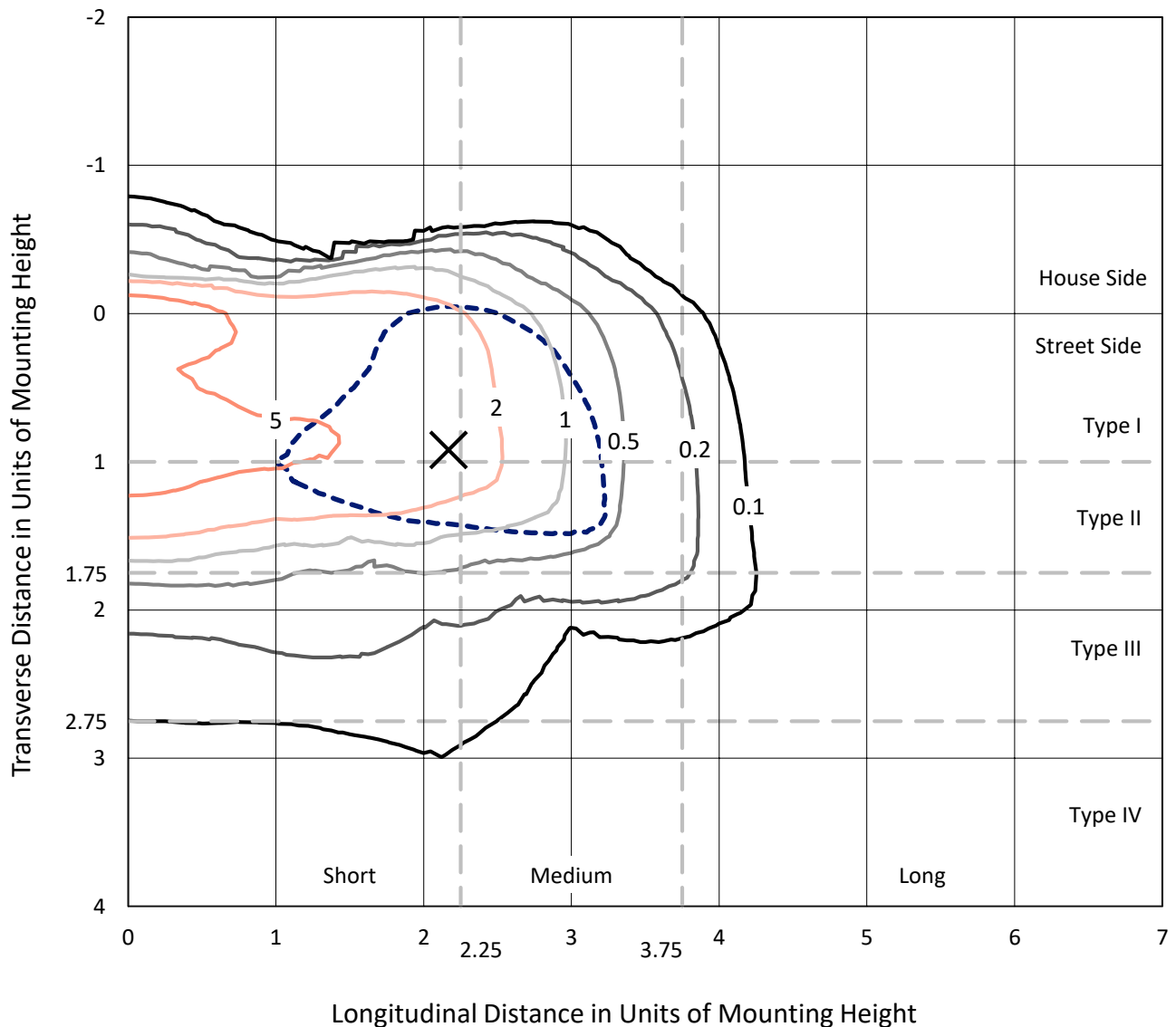


REPORT NUMBER: P269551

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7027-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

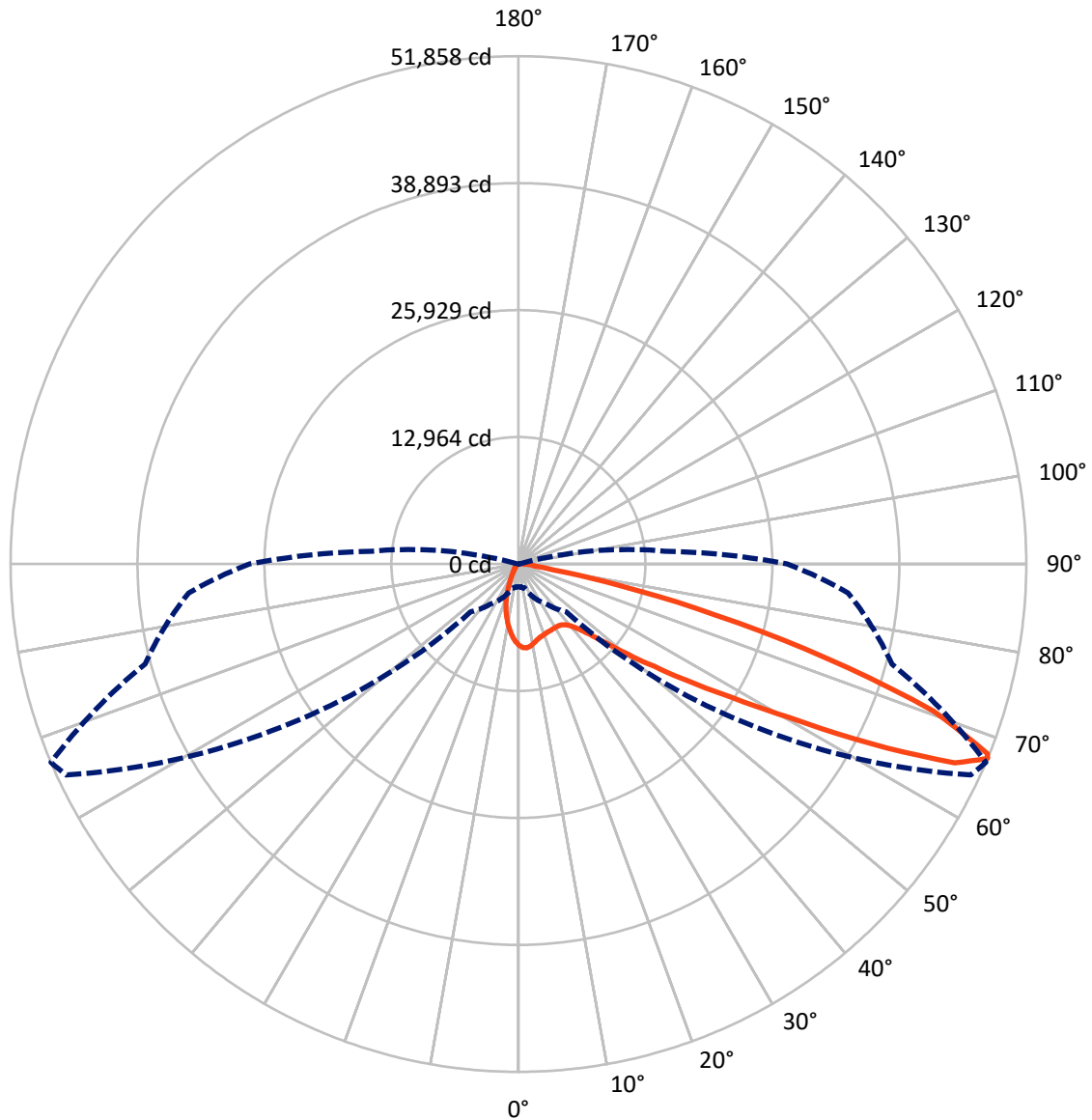


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269551

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7027-1200-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269551

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7027-1200-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3910.1	0.0	3910.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	33748.4	0.0	33748.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	37658.5	0.0	37658.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.8	1.8
10°-20°	1438.3	3.8
20°-30°	2091.2	5.6
30°-40°	3262.3	8.7
40°-50°	5779.0	15.3
50°-60°	9144.7	24.3
60°-70°	10474.0	27.8
70°-80°	4344.5	11.5
80°-90°	448.8	1.2
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°	37658.5	100.0
0°-180°	37658.5	100.0



REPORT NUMBER: P269551

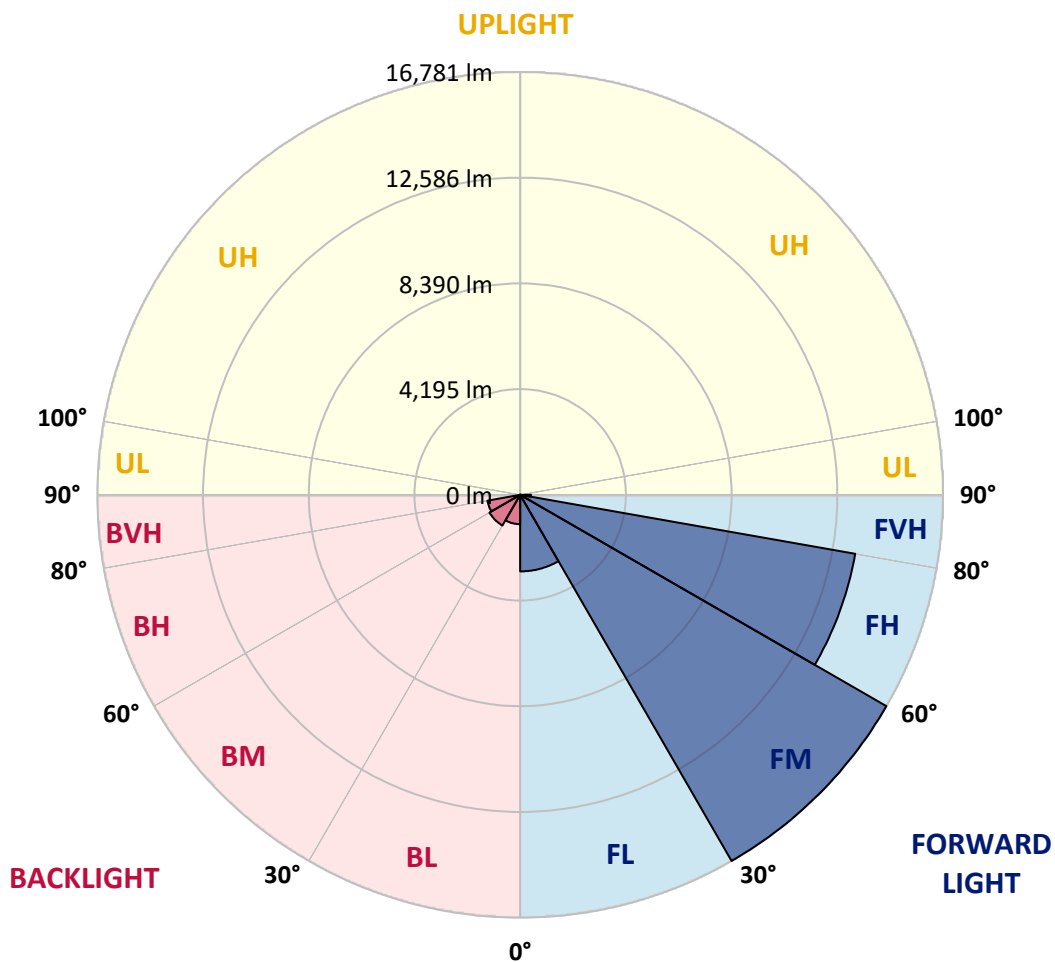
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3038.5	8.1			
FM	(30°-60°)	16780.7	44.6			
FH	(60°-80°)	13500.7	35.9			G5
FVH	(80°-90°)	428.6	1.1			G3/500
BL	(0°-30°)	1166.8	3.1	B3/2500		
BM	(30°-60°)	1405.3	3.7	B2/2500		
BH	(60°-80°)	1317.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	20.2	0.1			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 II Short





REPORT NUMBER: P269551

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1
2.5°	8586.2	8603.7	8601.6	8614.7	8645.6	8647.8	8617.0	8557.7	8544.5	8467.7	8333.7
5°	7918.5	7969.0	7999.8	8125.0	8265.6	8434.6	8562.0	8608.2	8601.6	8546.7	8344.6
7.5°	7156.3	7206.8	7242.0	7389.1	7575.9	7865.7	8197.5	8469.8	8494.0	8553.3	8335.8
10°	6648.9	6657.7	6705.9	6846.6	7042.1	7338.7	7734.0	8210.6	8283.1	8500.7	8313.9
12.5°	6231.5	6238.1	6301.8	6453.5	6662.1	6960.7	7376.0	7927.3	8039.3	8434.6	8309.5
15°	5935.0	5959.1	6016.3	6174.4	6396.3	6692.8	7119.0	7718.5	7852.7	8410.6	8348.9
17.5°	5836.2	5862.6	5880.1	5994.3	6196.4	6486.3	6923.4	7582.5	7734.0	8423.6	8425.9
20°	5939.5	5959.1	5919.7	5948.1	6073.4	6332.6	6758.7	7466.1	7646.2	8439.0	8524.7
22.5°	6323.8	6332.6	6225.0	6099.9	6077.8	6220.6	6629.1	7373.7	7567.1	8480.8	8641.2
25°	6982.7	6967.4	6791.6	6521.4	6266.7	6200.8	6552.2	7316.6	7527.4	8524.7	8762.0
27.5°	7778.0	7799.9	7558.2	7165.2	6679.6	6332.6	6541.3	7292.5	7509.9	8555.5	8867.3
30°	8744.5	8775.2	8498.3	8004.2	7307.8	6657.7	6642.2	7288.0	7499.0	8535.8	8876.2
32.5°	9730.6	9768.0	9550.5	9040.9	8146.9	7202.4	6870.7	7336.4	7520.9	8467.7	8825.7
35°	10763.0	10815.8	10670.7	10233.6	9284.7	7988.7	7272.7	7483.6	7624.2	8461.0	8775.2
37.5°	12188.6	12236.9	11964.4	11501.0	10662.0	9043.1	7918.5	7760.4	7868.0	8566.4	8788.3
40°	14316.9	14310.4	13607.5	12898.0	12175.4	10383.0	8825.7	8261.2	8316.1	8885.0	8950.8
42.5°	16636.5	16625.6	15586.6	14508.0	13855.6	12032.5	10018.3	9126.6	9089.2	9471.4	9372.6
45°	18424.4	18422.4	17574.4	16359.8	15878.7	13926.1	11560.4	10330.2	10273.1	10424.7	10150.2
47.5°	19186.7	19199.8	18773.8	17919.3	18121.4	16487.1	13504.3	12074.3	11988.7	11927.2	11509.9
50°	18593.7	18620.0	18655.1	18488.1	19766.6	19929.1	16111.6	14532.2	14490.5	14215.9	13563.6
52.5°	16656.4	16790.3	17203.3	17732.6	20337.6	23232.8	20199.3	17585.4	17361.5	17069.2	16350.9
55°	13392.2	13539.4	14323.6	15608.5	19487.7	25402.9	25927.9	21521.7	21148.2	20276.2	19239.4
57.5°	8862.9	9091.4	10229.2	11863.5	17018.7	25752.2	31643.2	26984.4	25684.0	23296.5	22127.9
60°	4882.8	5102.6	6337.1	7817.5	12291.8	24025.7	35487.2	34096.7	31799.2	26672.5	25635.7
62.5°	3007.0	3125.7	4037.3	5414.4	7371.5	18962.6	36282.4	43034.5	40374.4	31019.5	29872.9
65°	2394.3	2444.7	2890.7	4425.9	5284.9	11279.2	33714.6	49848.0	48960.7	36282.4	33666.1
67°	2323.9	2343.7	2554.6	3800.0	4981.7	6914.7	28245.1	50957.3	51857.9	39467.3	33784.8
67.5°	2339.2	2361.3	2561.2	3626.5	4972.9	6354.6	26360.6	50520.1	51658.0	39719.8	33259.8
70°	2255.9	2323.9	2932.3	3624.3	4729.1	5280.4	15786.5	43772.5	44956.3	36906.1	28221.1
72.5°	799.5	804.0	1267.4	2932.3	5142.1	5337.5	7927.3	32089.2	32965.6	28232.0	20346.5
75°	474.5	404.1	421.8	834.6	4913.5	5183.8	4573.2	20504.6	20831.9	16177.4	10303.9
77.5°	327.3	285.5	294.4	369.1	1871.4	5111.4	3633.0	10692.7	10343.4	5673.6	2194.3
80°	186.7	164.7	175.7	322.9	680.9	4768.7	3426.6	4335.9	3696.7	962.1	606.3
82.5°	98.9	83.5	101.0	265.8	474.5	2972.0	3433.2	2095.4	1660.5	325.0	413.0
85°	35.2	28.6	48.2	182.4	316.4	911.6	3182.8	1761.7	1383.7	158.1	314.0
87.5°	6.6	6.6	19.8	74.6	127.4	279.0	1882.4	1045.5	700.7	94.4	215.2
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°	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1	8305.1
2.5°	8278.7	8184.3	8056.9	7901.0	7716.4	7553.8	7433.0	7307.8	7281.5	7237.6	7230.9
5°	8223.9	8061.3	7744.9	7382.5	6995.9	6646.6	6363.4	6110.7	5998.7	5902.0	5891.1
7.5°	8142.5	7898.7	7360.6	6776.4	6172.3	5623.1	5157.4	4828.0	4524.9	4379.9	4357.9
10°	8048.0	7698.8	6927.9	6117.4	5282.7	4507.2	3815.5	3235.4	2884.1	2675.4	2649.0
12.5°	7960.2	7503.4	6486.3	5434.1	4325.0	3288.2	2398.7	1845.1	1476.1	1326.6	1309.1
15°	7918.5	7345.3	6073.4	4735.8	3323.4	2093.3	1311.3	1014.7	894.1	858.8	856.7
17.5°	7914.1	7211.2	5669.3	4013.1	2328.3	1216.8	854.5	779.8	755.7	746.9	746.9
20°	7911.9	7083.9	5265.1	3264.0	1478.3	810.5	711.6	694.1	676.6	665.6	665.6
22.5°	7936.0	6969.6	4843.3	2499.7	931.4	656.8	625.9	608.4	586.5	571.1	568.8
25°	7960.2	6881.7	4412.8	1779.3	674.4	571.1	540.3	516.2	485.4	465.7	463.4
27.5°	7964.6	6772.0	3951.6	1190.6	564.6	498.6	459.0	421.8	386.6	366.8	364.6
30°	7898.7	6587.5	3439.8	804.0	498.6	432.8	380.1	340.5	307.5	292.2	292.2
32.5°	7769.1	6358.9	2877.5	606.3	443.8	371.2	314.0	276.8	254.8	248.2	246.0
35°	7652.8	6113.0	2299.8	514.0	397.6	314.0	256.9	232.8	219.6	217.5	215.2
37.5°	7584.6	5915.2	1757.3	465.7	353.7	263.7	217.5	200.0	193.2	189.0	191.1
40°	7637.3	5750.5	1298.1	426.2	309.7	219.6	184.5	175.7	169.2	166.9	166.9
42.5°	7868.0	5721.9	964.3	391.0	268.0	182.4	160.3	153.8	149.4	147.1	149.4
45°	8474.3	5897.7	748.9	358.1	226.3	153.8	136.3	133.9	131.8	131.8	131.8
47.5°	9385.9	6260.1	623.9	320.6	189.0	131.8	118.7	116.4	114.3	116.4	116.4
50°	10929.9	6923.4	557.8	283.3	155.9	112.0	101.0	101.0	101.0	101.0	103.2
52.5°	13278.0	8228.3	514.0	246.0	127.4	94.4	85.7	85.7	87.9	87.9	90.1
55°	15894.2	9959.1	474.5	208.6	107.6	79.1	70.2	72.6	74.6	76.8	76.8
57.5°	18731.9	11876.6	441.4	171.3	92.3	63.7	59.3	61.5	63.7	68.1	68.1
60°	22156.3	13952.4	393.2	133.9	76.8	50.6	46.2	50.6	57.1	61.5	63.7
62.5°	25916.9	15959.9	331.7	105.5	63.7	39.5	37.3	46.2	54.8	59.3	61.5
65°	28486.8	16590.3	254.8	85.7	48.2	28.6	30.7	41.7	52.7	59.3	59.3
67°	27445.6	15041.8	208.6	72.6	39.5	22.0	28.6	41.7	52.7	57.1	59.3
67.5°	26723.0	14435.7	200.0	70.2	37.3	22.0	28.6	41.7	52.7	59.3	59.3
70°	21743.5	10844.2	166.9	52.7	30.7	19.8	24.2	39.5	50.6	57.1	57.1
72.5°	15107.8	6686.3	149.4	37.3	26.4	17.5	22.0	37.3	48.2	54.8	57.1
75°	7182.7	2420.6	127.4	28.6	24.2	15.5	19.8	37.3	48.2	54.8	54.8
77.5°	1465.0	562.2	103.2	24.2	19.8	15.5	17.5	35.2	46.2	52.7	52.7
80°	481.0	217.5	76.8	22.0	19.8	15.5	17.5	33.0	46.2	50.6	52.7
82.5°	347.0	109.9	50.6	22.0	19.8	15.5	15.5	33.0	43.9	50.6	50.6
85°	265.8	76.8	33.0	22.0	19.8	15.5	15.5	30.7	41.7	48.2	48.2
87.5°	175.7	30.7	26.4	22.0	19.8	15.5	15.5	30.7	39.5	46.2	48.2
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)