

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: P269705

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269705  
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: GLEON-AF-10-LED-E1-SL2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA 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: 50144.9 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

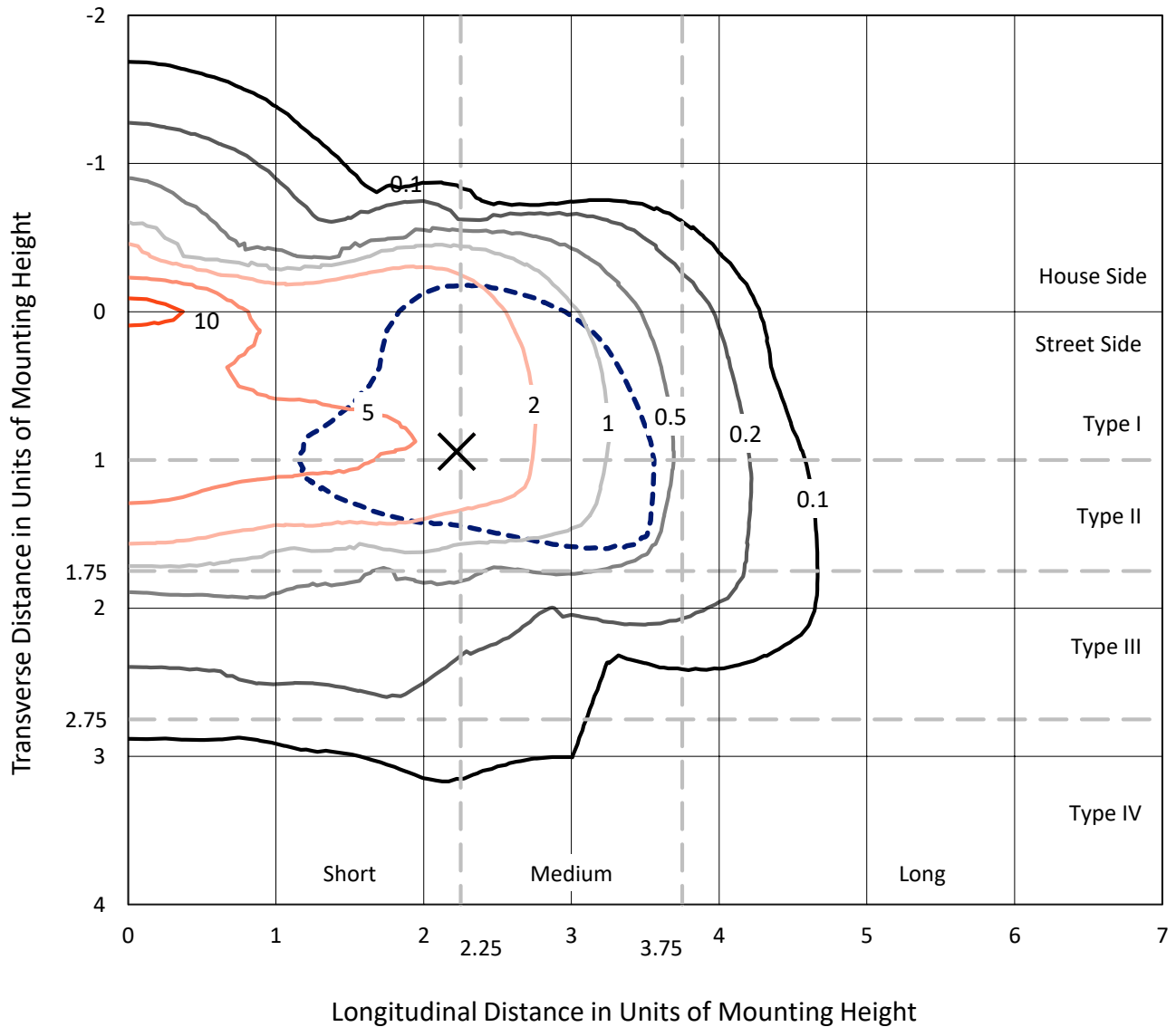
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

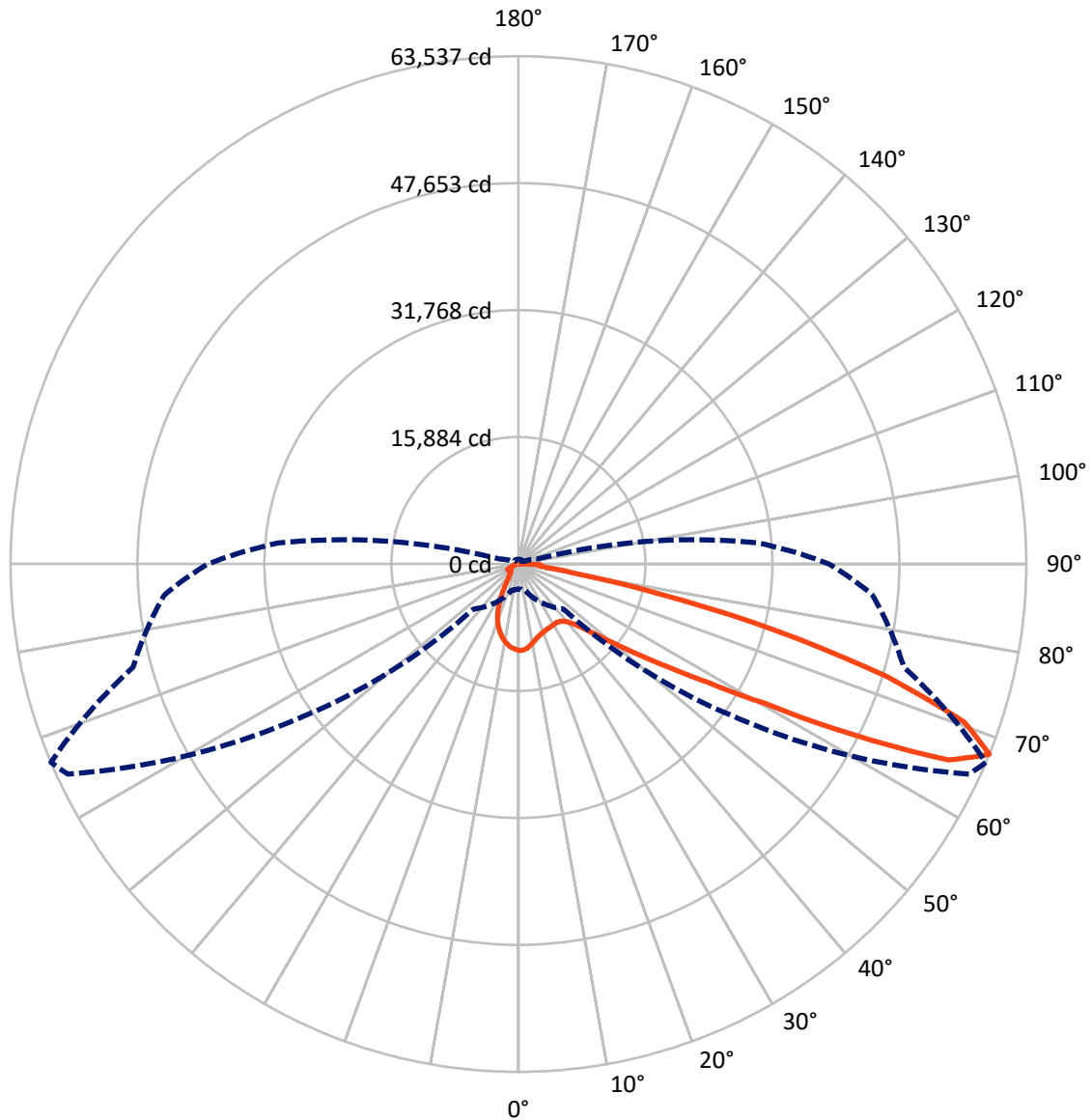
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	8308.5	0.0	8308.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	41836.4	0.0	41836.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	50144.9	0.0	50144.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	922.8	1.8
10°-20°	2135.2	4.3
20°-30°	2894.3	5.8
30°-40°	4114.5	8.2
40°-50°	6883.7	13.7
50°-60°	10889.9	21.7
60°-70°	13872.7	27.7
70°-80°	7266.5	14.5
80°-90°	1165.4	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°	50144.9	100.0
0°-180°	50144.9	100.0



REPORT NUMBER: P269705

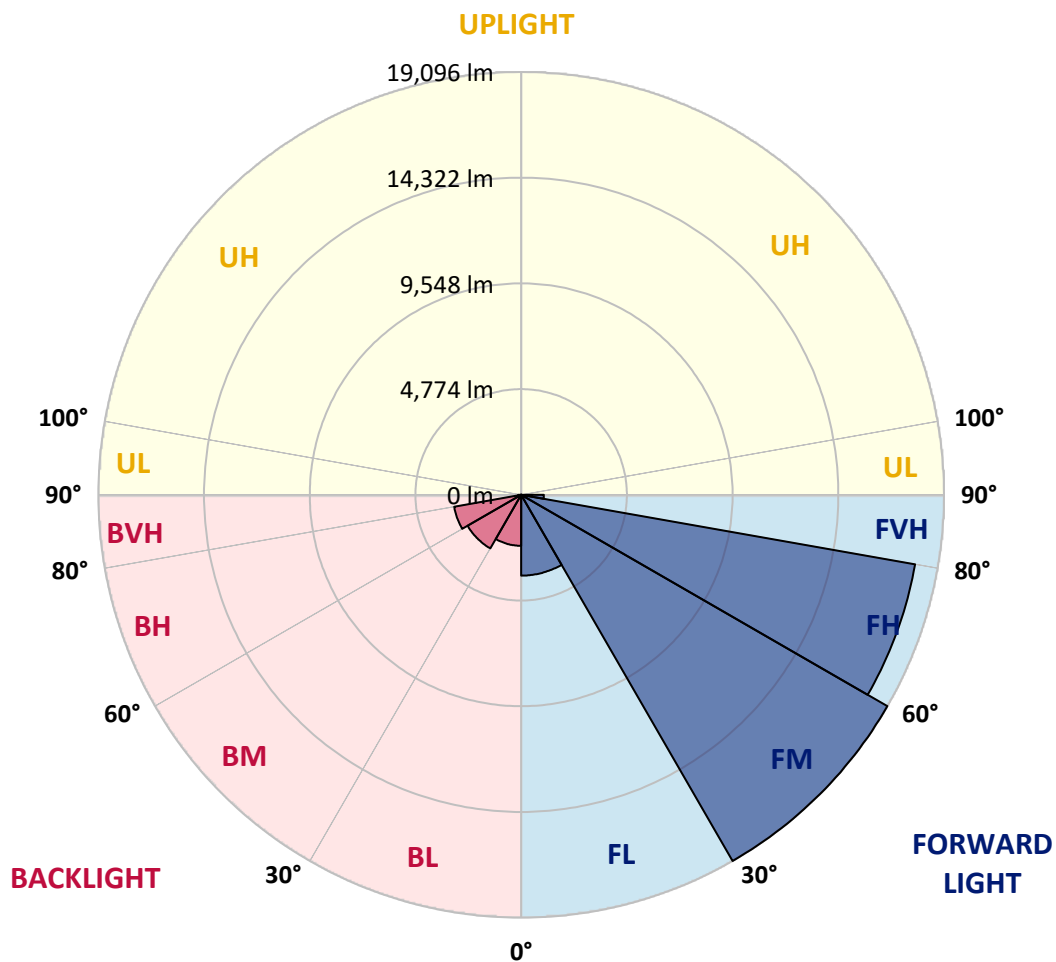
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3649.3	7.3			
FM	(30°-60°)	19096.2	38.1			
FH	(60°-80°)	18066.1	36.0			G5
FVH	(80°-90°)	1024.8	2.0			G5
BL	(0°-30°)	2302.9	4.6	B3/2500		
BM	(30°-60°)	2791.9	5.6	B3/5000		
BH	(60°-80°)	3073.0	6.1	B4/5000		G4/5000
BVH	(80°-90°)	140.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





REPORT NUMBER: P269705

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1
2.5°	10371.0	10388.3	10442.7	10477.3	10633.1	10699.9	10747.0	10793.9	10801.3	10823.6	10801.3
5°	9282.9	9320.0	9421.5	9535.1	9836.9	10074.3	10324.0	10583.7	10630.6	10798.9	10845.7
7.5°	8439.8	8429.9	8514.0	8649.9	8959.1	9287.9	9725.6	10242.5	10343.9	10722.2	10905.2
10°	7824.0	7816.6	7905.7	8046.6	8340.9	8652.5	9147.0	9854.1	9997.6	10601.0	10962.0
12.5°	7368.9	7371.5	7460.6	7616.3	7915.5	8229.6	8731.5	9478.3	9661.4	10460.0	11021.3
15°	7067.3	7087.1	7158.9	7324.5	7616.3	7930.3	8422.4	9196.4	9401.8	10348.7	11088.0
17.5°	6965.9	6998.1	7022.8	7144.0	7393.7	7707.7	8189.9	8988.7	9206.3	10272.1	11147.4
20°	7059.9	7097.0	7050.0	7092.1	7250.3	7527.3	8007.0	8825.5	9048.1	10185.5	11155.0
22.5°	7462.9	7497.7	7359.2	7238.0	7228.0	7396.3	7856.1	8696.9	8926.8	10121.3	11157.4
25°	8172.7	8195.0	7962.4	7680.6	7406.0	7349.3	7749.8	8607.9	8852.6	10064.4	11110.3
27.5°	9043.1	9060.5	8793.4	8378.0	7826.6	7460.6	7712.8	8555.9	8810.7	10014.9	11031.2
30°	10101.5	10183.0	9824.6	9300.3	8496.6	7789.5	7786.9	8528.8	8763.7	9930.9	10875.5
32.5°	11184.5	11219.2	10971.9	10440.2	9399.1	8368.0	7994.6	8548.5	8751.3	9829.4	10677.7
35°	12282.5	12327.0	12166.3	11738.5	10633.1	9216.3	8400.2	8664.8	8828.0	9794.8	10539.2
37.5°	13704.5	13763.7	13541.2	13046.7	12134.1	10366.1	9075.2	8956.6	9062.9	9893.8	10497.1
40°	15952.2	15925.0	15274.6	14537.7	13776.0	11837.3	10039.6	9451.2	9513.0	10212.8	10625.7
42.5°	18568.4	18501.6	17381.5	16224.2	15581.2	13617.9	11315.6	10309.2	10296.8	10840.8	11078.3
45°	20655.4	20601.1	19592.2	18165.3	17650.9	15645.5	12965.0	11587.6	11496.1	11837.3	11914.1
47.5°	21785.5	21788.0	21206.9	20042.3	20029.9	18222.2	15084.2	13437.3	13279.0	13439.8	13358.2
50°	21389.9	21441.9	21380.0	21009.1	22201.0	21600.1	17851.3	16016.5	15697.5	15855.8	15541.7
52.5°	19476.0	19542.6	19908.6	20477.5	23113.5	25682.7	21916.6	19221.3	18850.4	18793.4	18444.8
55°	16083.3	16164.8	16911.6	18457.1	22354.3	28425.1	28331.1	23306.3	22715.4	22178.8	22030.4
57.5°	11085.7	11221.6	12423.5	14718.2	19898.8	29253.5	35969.7	29129.9	27928.0	26053.6	26088.2
60°	6248.8	6407.2	7824.0	9908.7	14943.2	28353.5	41780.8	37950.4	35413.3	30591.3	30848.4
62.5°	3973.8	4144.4	5220.1	6884.3	8966.4	23506.7	44162.1	50213.2	46991.1	36184.7	36437.1
65°	3217.1	3291.3	3798.3	5682.6	6510.9	14161.9	42354.5	60314.5	59112.8	43284.3	42107.2
67.5°	3140.5	3165.2	3427.4	4770.1	6243.8	7960.1	33783.6	62203.9	63536.7	49914.0	44468.7
70°	3103.4	3189.9	3862.5	4552.5	5979.3	6713.8	20301.9	57025.8	59130.2	51647.3	41325.7
72.5°	1506.0	1501.0	1943.7	4117.2	6736.0	6963.5	10430.4	46140.5	48252.2	44745.7	33959.3
75°	1214.1	1110.2	1060.9	1508.4	6476.3	7190.9	6647.0	31748.5	33276.8	30000.2	20875.5
77.5°	1152.3	1028.6	942.1	944.6	2737.4	7626.3	5630.7	17571.8	18016.9	13551.0	5719.7
80°	954.4	840.8	778.9	877.9	1325.4	7262.6	6088.2	7952.5	7297.3	3328.4	1904.0
82.5°	662.7	603.4	586.1	736.9	1060.9	5175.7	7079.7	4273.1	3583.1	1666.6	1174.7
85°	422.8	360.9	400.6	536.6	825.9	2388.8	7292.4	3330.8	2648.5	1058.4	662.7
87.5°	195.3	158.2	197.8	296.7	539.1	823.4	6938.8	3741.4	2727.6	558.8	417.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269705

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1	10816.1
2.5°	10821.1	10774.1	10737.0	10667.7	10591.0	10516.8	10450.2	10366.1	10341.4	10319.1	10353.8
5°	10855.7	10808.6	10672.8	10460.0	10225.0	10005.1	9785.0	9597.0	9480.8	9416.6	9453.7
7.5°	10907.6	10840.8	10558.9	10168.3	9745.4	9359.6	8961.5	8642.6	8407.5	8296.3	8328.5
10°	10954.7	10826.1	10366.1	9779.9	9161.9	8588.2	7960.1	7440.8	7055.0	6852.2	6901.7
12.5°	10974.5	10769.2	10096.5	9295.3	8447.1	7606.4	6681.6	5905.1	5351.3	5148.5	5106.3
15°	10994.1	10704.8	9799.8	8743.9	7584.1	6394.8	5099.0	4169.2	3709.2	3607.9	3585.6
17.5°	10999.0	10593.6	9463.5	8145.6	6572.8	4953.1	3486.7	2895.6	2898.1	3061.3	3081.1
20°	10947.1	10427.9	9055.5	7401.1	5361.1	3424.9	2393.8	2292.4	2665.7	3073.7	3123.1
22.5°	10828.4	10207.8	8593.0	6533.3	3973.8	2255.3	1852.1	1963.4	2445.6	2945.2	3002.0
25°	10677.7	9940.7	8046.6	5526.7	2631.0	1612.3	1552.9	1689.0	2015.3	2349.2	2381.3
27.5°	10472.4	9624.3	7433.4	4374.4	1708.8	1328.0	1367.5	1458.9	1592.4	1740.8	1755.6
30°	10207.8	9245.9	6778.0	3189.9	1290.9	1194.3	1251.2	1300.7	1357.6	1441.7	1449.1
32.5°	9903.6	8882.4	6105.4	2203.4	1144.9	1125.1	1169.7	1194.3	1238.9	1290.9	1295.7
35°	9649.0	8536.1	5408.1	1557.9	1083.0	1073.3	1102.8	1112.8	1154.9	1211.6	1216.7
37.5°	9503.1	8254.3	4688.4	1256.2	1041.0	1026.3	1043.6	1043.6	1102.8	1187.0	1199.2
40°	9513.0	8098.5	3968.9	1135.0	1006.5	986.7	989.2	989.2	1065.7	1157.2	1164.7
42.5°	9782.5	8138.0	3330.8	1088.0	979.2	957.0	944.6	952.1	1016.3	1075.7	1080.7
45°	10415.5	8417.5	2732.5	1058.4	952.1	944.6	917.3	915.0	939.6	966.8	966.8
47.5°	11454.1	8968.9	2326.9	1038.6	929.7	927.3	895.3	863.0	860.5	870.5	870.5
50°	13143.0	9918.5	2055.0	1016.3	915.0	895.3	858.2	808.7	791.2	798.8	798.8
52.5°	15675.2	11612.4	1951.1	986.7	882.9	850.7	808.7	759.2	744.3	746.9	746.9
55°	18996.2	14213.8	1936.2	952.1	848.2	796.3	761.7	724.6	707.2	712.1	712.1
57.5°	23054.1	17811.8	2200.8	897.6	801.2	741.8	722.1	697.4	685.0	692.5	689.9
60°	27987.5	22520.0	3264.1	840.8	754.1	692.5	692.5	672.7	662.7	670.1	667.7
62.5°	33669.9	27928.0	4589.6	798.8	704.8	652.8	662.7	652.8	642.9	647.9	645.4
65°	38709.6	31451.8	4297.9	766.6	655.4	615.8	633.0	628.0	620.6	625.6	623.2
67.5°	38855.5	30146.2	2413.4	731.9	608.3	578.7	603.4	600.8	595.9	600.8	598.5
70°	34676.5	25455.2	1360.0	667.7	558.8	534.1	568.7	566.3	561.4	571.2	568.7
72.5°	27782.2	18471.9	994.1	588.5	509.3	487.2	526.6	524.3	524.3	539.1	531.6
75°	15986.7	9505.5	793.8	504.5	457.4	440.2	474.8	477.3	482.2	502.1	487.2
77.5°	4557.5	2962.4	647.9	427.9	393.2	385.7	420.3	425.3	427.9	450.1	430.3
80°	1693.8	1365.1	534.1	358.6	321.5	324.0	356.1	363.5	366.0	388.2	363.5
82.5°	1080.7	900.1	432.8	276.9	252.2	249.8	289.3	299.2	299.2	301.7	286.9
85°	630.6	539.1	326.4	200.3	178.0	170.6	215.1	232.4	225.0	220.1	210.3
87.5°	422.8	370.9	200.3	111.3	96.5	91.4	126.1	138.5	133.6	126.1	118.7
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)