

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: P191905

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191905  
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-07-LED-E1-SL2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA 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: 45245 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 448  
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

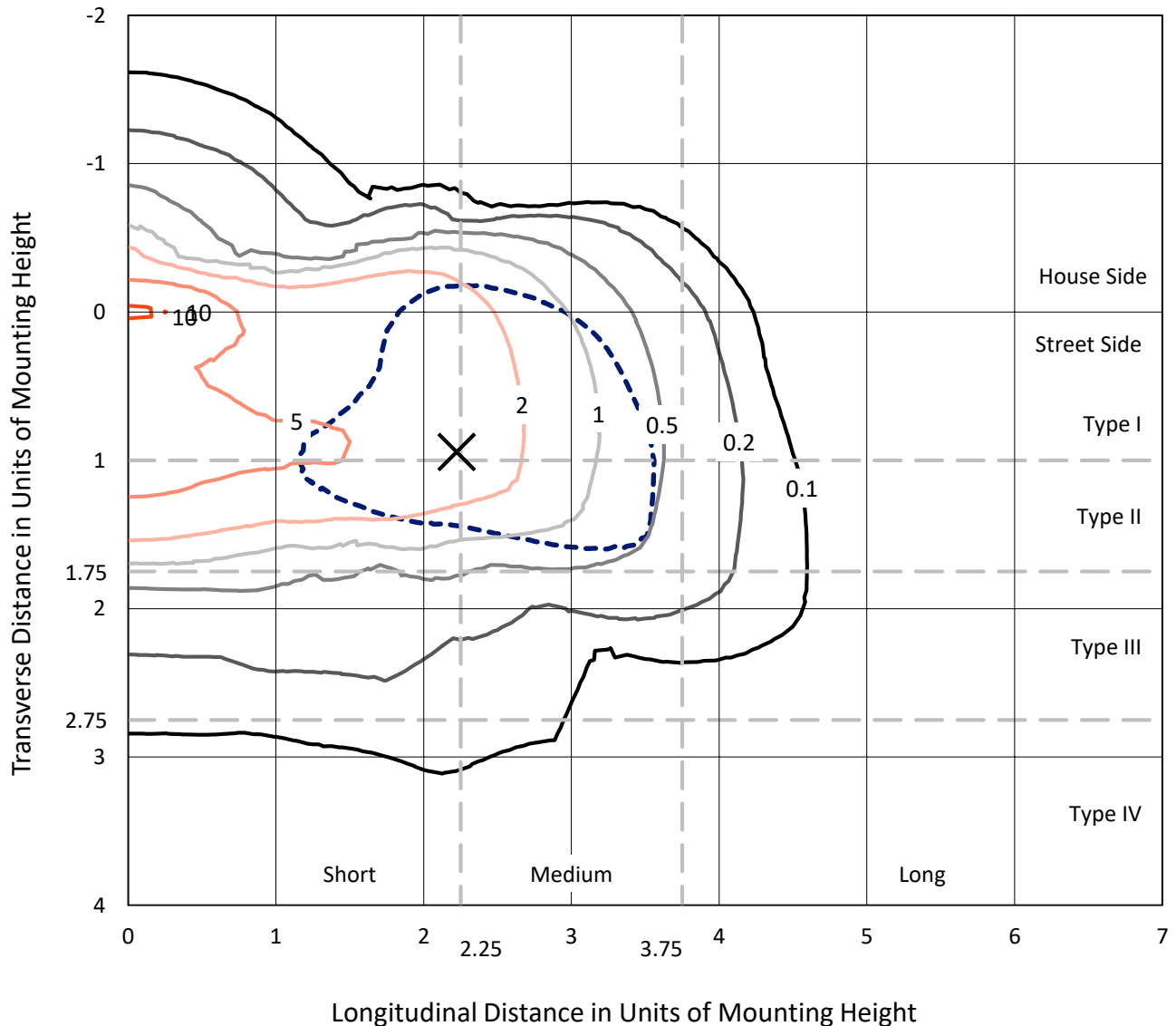


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

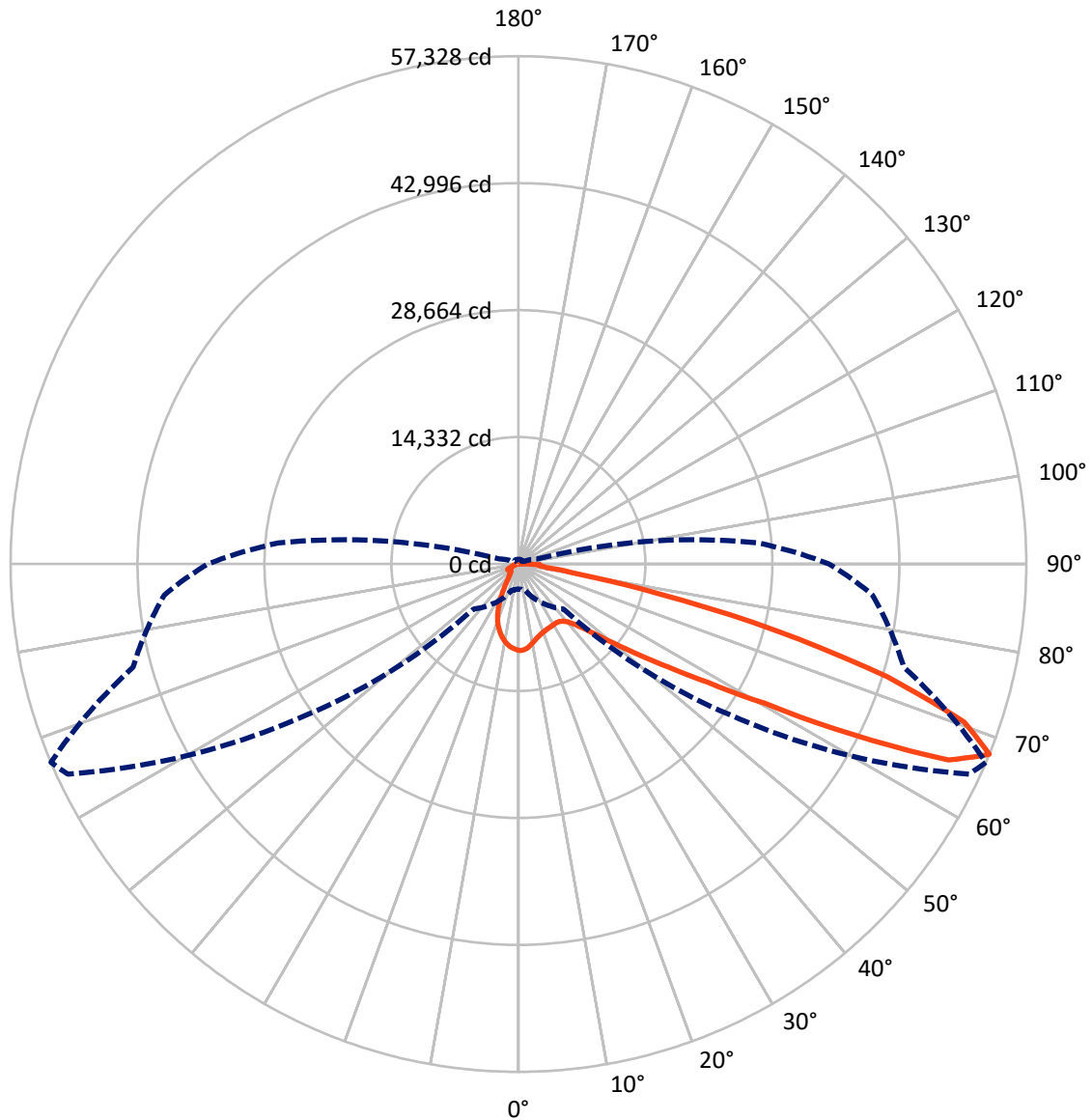


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Semi-Cutoff

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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	7496.6	0.0	7496.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	37748.4	0.0	37748.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	45245.0	0.0	45245.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.6	1.8
10°-20°	1926.5	4.3
20°-30°	2611.4	5.8
30°-40°	3712.4	8.2
40°-50°	6211.0	13.7
50°-60°	9825.8	21.7
60°-70°	12517.1	27.7
70°-80°	6556.4	14.5
80°-90°	1051.5	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°	45245.0	100.0
0°-180°	45245.0	100.0



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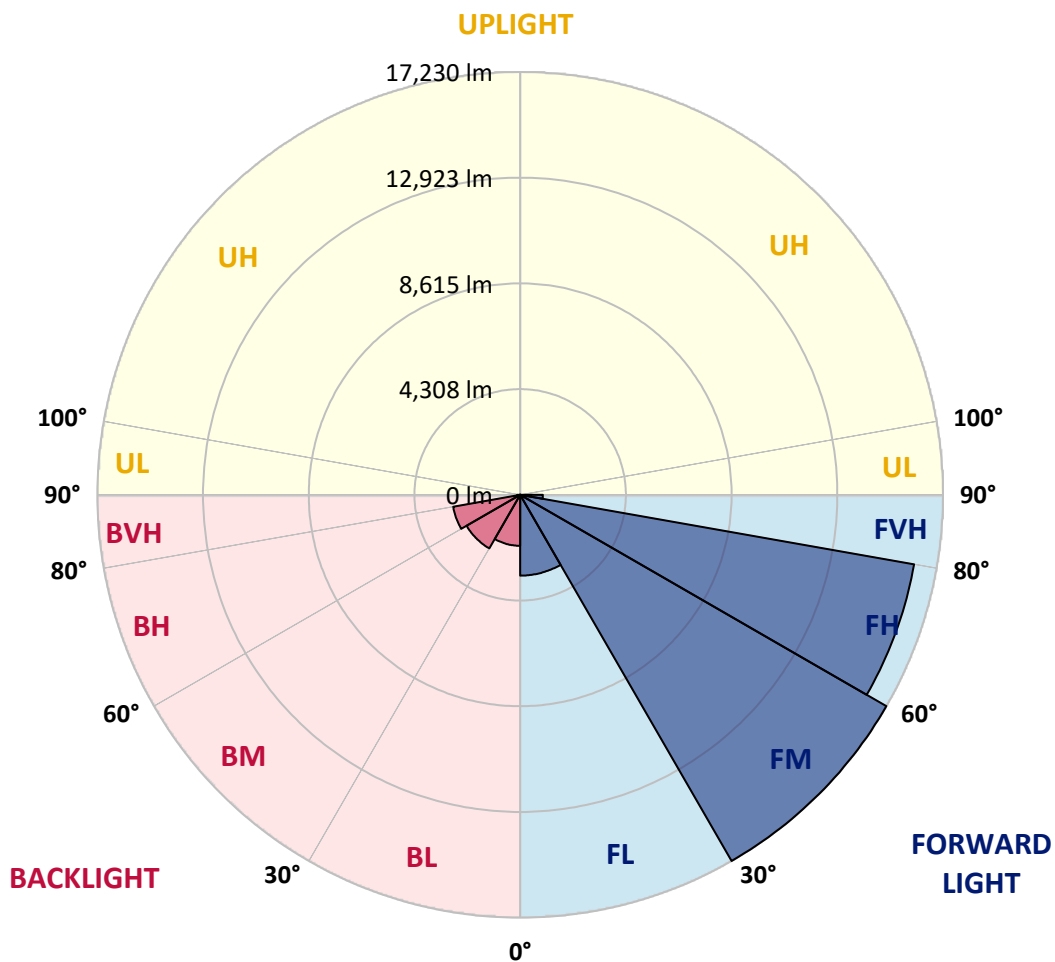
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3292.7	7.3			
FM	(30°-60°)	17230.2	38.1			
FH	(60°-80°)	16300.8	36.0			G5
FVH	(80°-90°)	924.6	2.0			G5
BL	(0°-30°)	2077.8	4.6	B3/2500		
BM	(30°-60°)	2519.1	5.6	B3/5000		
BH	(60°-80°)	2772.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	126.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2
2.5°	9357.6	9373.2	9422.3	9453.6	9594.1	9654.4	9696.8	9739.2	9745.8	9765.9	9745.8
5°	8375.9	8409.4	8500.8	8603.5	8875.7	9089.9	9315.2	9549.5	9591.9	9743.6	9786.0
7.5°	7615.1	7606.1	7682.0	7804.7	8083.6	8380.4	8775.3	9241.6	9333.1	9674.5	9839.6
10°	7059.5	7052.8	7133.1	7260.3	7525.8	7806.9	8253.2	8891.3	9020.7	9565.1	9890.9
12.5°	6649.0	6651.2	6731.5	6872.1	7142.0	7425.4	7878.3	8552.2	8717.3	9437.9	9944.4
15°	6376.7	6394.6	6459.3	6608.8	6872.1	7155.4	7599.4	8297.8	8483.0	9337.5	10004.7
17.5°	6285.3	6314.3	6336.6	6445.9	6671.3	6954.6	7389.7	8110.4	8306.7	9268.4	10058.2
20°	6370.1	6403.5	6361.1	6399.1	6541.9	6791.7	7224.6	7963.1	8163.9	9190.3	10064.9
22.5°	6733.7	6765.0	6640.0	6530.7	6521.8	6673.5	7088.5	7847.1	8054.6	9132.3	10067.1
25°	7374.1	7394.2	7184.4	6930.1	6682.4	6631.1	6992.6	7766.8	7987.7	9081.0	10024.7
27.5°	8159.5	8175.1	7934.1	7559.3	7061.7	6731.5	6959.1	7719.9	7949.7	9036.3	9953.3
30°	9114.4	9188.1	8864.5	8391.5	7666.4	7028.3	7026.0	7695.4	7907.3	8960.5	9812.8
32.5°	10091.7	10122.9	9899.8	9420.1	8480.8	7550.4	7213.4	7713.2	7896.2	8869.0	9634.3
35°	11082.3	11122.5	10977.5	10591.5	9594.1	8315.7	7579.4	7818.1	7965.4	8837.8	9509.3
37.5°	12365.3	12418.8	12218.0	11771.8	10948.5	9353.2	8188.5	8081.4	8177.3	8927.0	9471.4
40°	14393.4	14368.9	13782.1	13117.2	12430.0	10680.7	9058.6	8527.6	8583.4	9214.8	9587.4
42.5°	16754.0	16693.8	15683.1	14638.9	14058.7	12287.2	10209.9	9301.8	9290.7	9781.5	9995.7
45°	18637.2	18588.1	17677.7	16390.3	15926.3	14116.8	11698.1	10455.4	10372.8	10680.7	10749.9
47.5°	19656.8	19659.0	19134.7	18083.8	18072.7	16441.7	13610.3	12124.3	11981.5	12126.5	12052.9
50°	19299.8	19346.7	19290.9	18956.2	20031.6	19489.5	16107.0	14451.4	14163.6	14306.4	14023.0
52.5°	17572.9	17633.1	17963.3	18476.5	20855.0	23173.2	19775.1	17343.1	17008.4	16957.1	16642.5
55°	14511.7	14585.3	15259.1	16653.6	20170.0	25647.6	25562.8	21029.0	20495.7	20011.6	19877.7
57.5°	10002.4	10125.2	11209.5	13280.1	17954.4	26395.0	32454.9	26283.4	25199.1	23507.8	23539.1
60°	5638.2	5781.0	7059.5	8940.4	13483.1	25582.9	37698.2	34242.1	31952.9	27602.1	27834.1
62.5°	3585.5	3739.5	4710.0	6211.6	8090.3	21209.7	39846.9	45306.6	42399.3	32649.0	32876.6
65°	2902.8	2969.7	3427.1	5127.3	5874.7	12778.0	38215.9	54421.0	53336.7	39054.8	37992.7
67.5°	2833.6	2855.9	3092.4	4304.0	5633.8	7182.2	30482.6	56125.6	57328.3	45036.6	40123.5
70°	2800.1	2878.2	3485.1	4107.6	5395.0	6057.7	18318.1	51453.5	53352.3	46600.7	37287.7
72.5°	1358.8	1354.3	1753.7	3714.9	6077.8	6283.0	9411.2	41631.8	43537.3	40373.4	30641.0
75°	1095.5	1001.8	957.2	1361.0	5843.5	6488.3	5997.4	28646.3	30025.2	27068.8	18835.7
77.5°	1039.7	928.2	850.1	852.3	2469.9	6881.0	5080.4	15854.9	16256.5	12226.9	5160.7
80°	861.2	758.6	702.8	792.1	1195.9	6553.0	5493.2	7175.5	6584.2	3003.2	1718.0
82.5°	598.0	544.4	528.8	664.9	957.2	4669.9	6387.9	3855.5	3233.0	1503.8	1059.8
85°	381.5	325.8	361.5	484.2	745.2	2155.3	6579.8	3005.4	2389.6	955.0	598.0
87.5°	176.3	142.8	178.5	267.7	486.4	743.0	6260.7	3375.8	2461.0	504.2	377.1
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°	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2	9759.2
2.5°	9763.7	9721.3	9687.8	9625.4	9556.2	9489.3	9429.0	9353.2	9330.8	9310.8	9342.0
5°	9794.9	9752.5	9629.8	9437.9	9226.0	9027.4	8828.8	8659.3	8554.4	8496.4	8529.8
7.5°	9841.8	9781.5	9527.2	9174.7	8793.1	8445.1	8085.8	7798.0	7586.1	7485.7	7514.7
10°	9884.2	9768.2	9353.2	8824.4	8266.6	7748.9	7182.2	6713.7	6365.6	6182.6	6227.3
12.5°	9902.0	9716.8	9110.0	8387.1	7621.8	6863.1	6028.7	5328.1	4828.3	4645.3	4607.4
15°	9919.9	9658.8	8842.2	7889.5	6843.1	5769.9	4600.7	3761.8	3346.8	3255.3	3235.2
17.5°	9924.3	9558.4	8538.8	7349.5	5930.5	4469.1	3146.0	2612.7	2615.0	2762.2	2780.1
20°	9877.5	9408.9	8170.6	6678.0	4837.2	3090.2	2159.8	2068.3	2405.2	2773.4	2818.0
22.5°	9770.4	9210.4	7753.4	5894.8	3585.5	2034.8	1671.2	1771.6	2206.6	2657.4	2708.7
25°	9634.3	8969.4	7260.3	4986.7	2374.0	1454.7	1401.2	1523.9	1818.4	2119.6	2148.6
27.5°	9449.1	8683.8	6707.0	3947.0	1541.8	1198.2	1233.8	1316.4	1436.9	1570.8	1584.1
30°	9210.4	8342.4	6115.7	2878.2	1164.7	1077.7	1129.0	1173.6	1224.9	1300.8	1307.5
32.5°	8935.9	8014.4	5508.8	1988.0	1033.0	1015.2	1055.4	1077.7	1117.8	1164.7	1169.1
35°	8706.1	7702.1	4879.6	1405.7	977.3	968.3	995.1	1004.0	1042.0	1093.3	1097.7
37.5°	8574.5	7447.7	4230.3	1133.4	939.3	925.9	941.6	941.6	995.1	1071.0	1082.1
40°	8583.4	7307.2	3581.1	1024.1	908.1	890.2	892.5	892.5	961.6	1044.2	1050.9
42.5°	8826.6	7342.9	3005.4	981.7	883.6	863.5	852.3	859.0	917.0	970.6	975.0
45°	9397.8	7595.0	2465.5	955.0	859.0	852.3	827.8	825.5	847.9	872.4	872.4
47.5°	10334.9	8092.5	2099.6	937.1	838.9	836.7	807.7	778.7	776.5	785.4	785.4
50°	11858.8	8949.3	1854.1	917.0	825.5	807.7	774.2	729.6	714.0	720.7	720.7
52.5°	14143.5	10477.7	1760.4	890.2	796.5	767.5	729.6	685.0	671.6	673.8	673.8
55°	17140.0	12824.9	1747.0	859.0	765.3	718.4	687.2	653.7	638.1	642.6	642.6
57.5°	20801.4	16071.3	1985.8	809.9	722.9	669.4	651.5	629.2	618.0	624.7	622.5
60°	25252.6	20319.5	2945.2	758.6	680.5	624.7	624.7	606.9	598.0	604.7	602.4
62.5°	30379.9	25199.1	4141.1	720.7	635.9	589.0	598.0	589.0	580.1	584.6	582.3
65°	34927.1	28378.5	3877.8	691.7	591.3	555.6	571.2	566.7	560.0	564.5	562.3
67.5°	35058.7	27200.5	2177.6	660.4	548.9	522.1	544.4	542.2	537.7	542.2	539.9
70°	31288.0	22967.9	1227.2	602.4	504.2	481.9	513.2	510.9	506.5	515.4	513.2
72.5°	25067.4	16667.0	896.9	531.0	459.6	439.5	475.2	473.0	473.0	486.4	479.7
75°	14424.7	8576.7	716.2	455.2	412.8	397.2	428.4	430.6	435.1	452.9	439.5
77.5°	4112.1	2673.0	584.6	386.0	354.8	348.1	379.3	383.8	386.0	406.1	388.2
80°	1528.4	1231.6	481.9	323.5	290.1	292.3	321.3	328.0	330.2	350.3	328.0
82.5°	975.0	812.2	390.5	249.9	227.6	225.4	261.0	270.0	270.0	272.2	258.8
85°	569.0	486.4	294.5	180.7	160.6	154.0	194.1	209.7	203.0	198.6	189.7
87.5°	381.5	334.7	180.7	100.4	87.0	82.6	113.8	124.9	120.5	113.8	107.1
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)