

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: P193638

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193638  
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-SL2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 47097 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

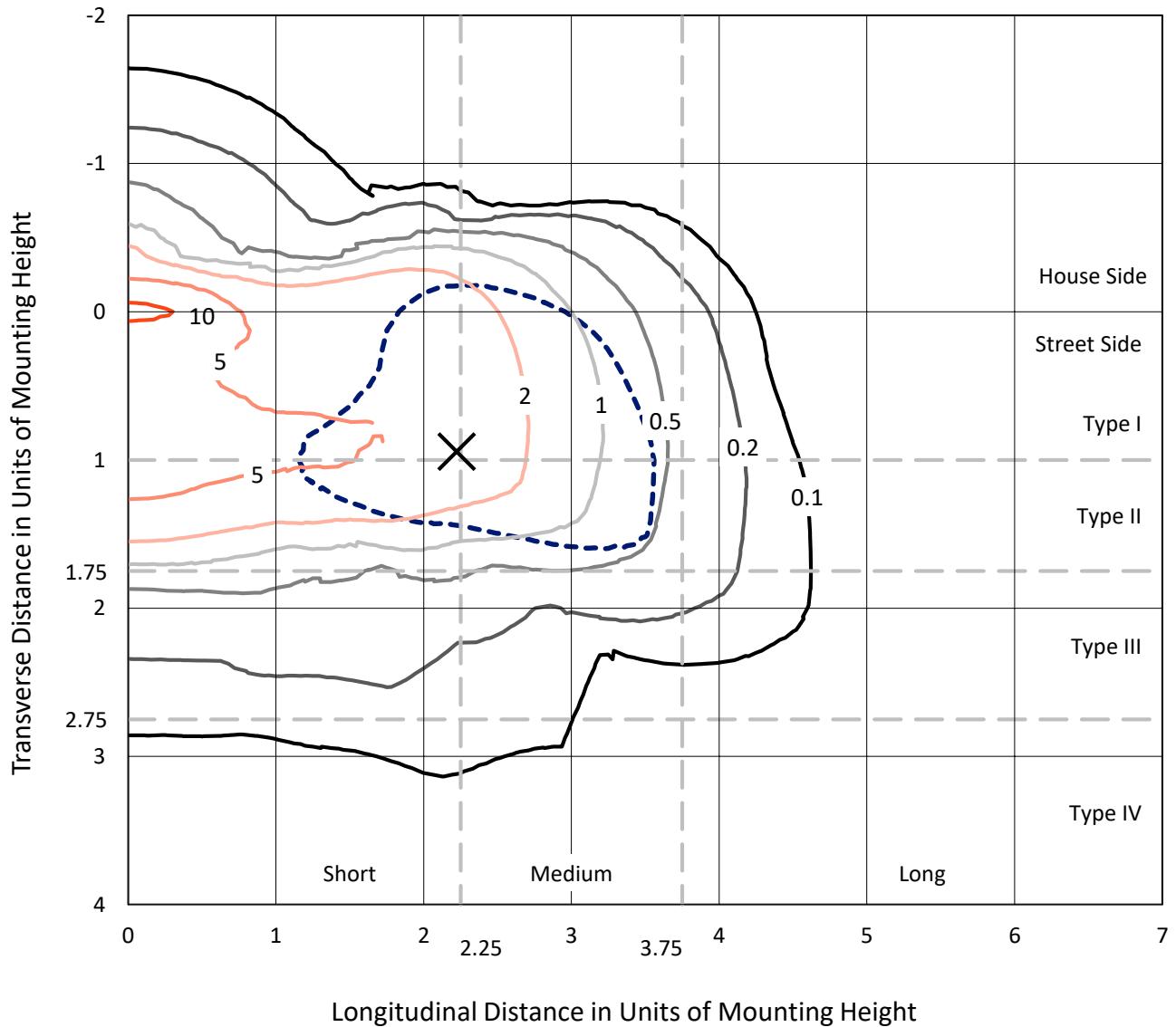
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

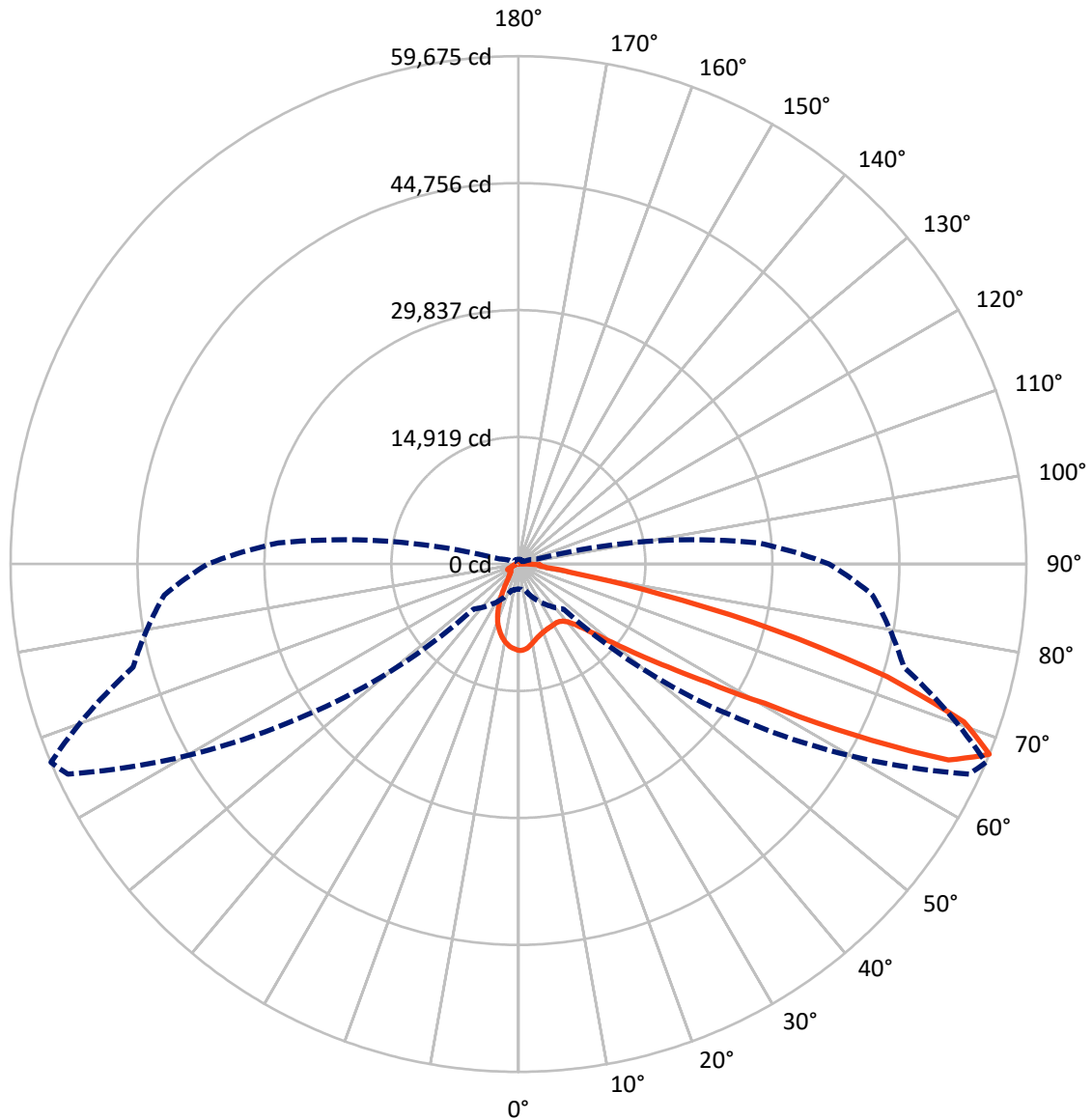
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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	7803.5	0.0	7803.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	39293.5	0.0	39293.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	47097.0	0.0	47097.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	866.7	1.8
10°-20°	2005.4	4.3
20°-30°	2718.3	5.8
30°-40°	3864.4	8.2
40°-50°	6465.3	13.7
50°-60°	10228.0	21.7
60°-70°	13029.5	27.7
70°-80°	6824.8	14.5
80°-90°	1094.6	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°	47097.0	100.0
0°-180°	47097.0	100.0



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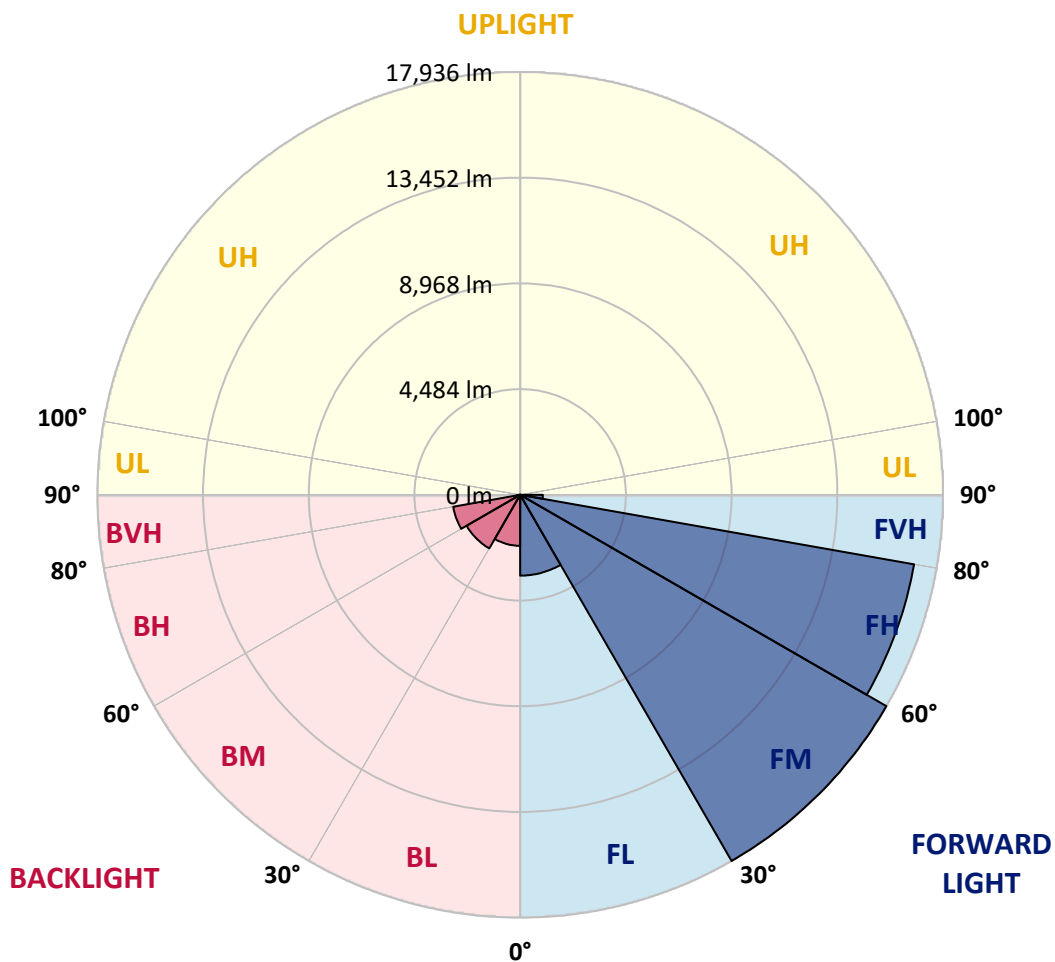
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3427.5	7.3			
FM	(30°-60°)	17935.5	38.1			
FH	(60°-80°)	16968.1	36.0			G5
FVH	(80°-90°)	962.5	2.0			G5
BL	(0°-30°)	2162.9	4.6	B3/2500		
BM	(30°-60°)	2622.2	5.6	B3/5000		
BH	(60°-80°)	2886.2	6.1	B4/5000		G4/5000
BVH	(80°-90°)	132.1	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°	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7
2.5°	9740.7	9756.9	9808.0	9840.5	9986.8	10049.5	10093.7	10137.8	10144.8	10165.7	10144.8
5°	8718.7	8753.6	8848.8	8955.6	9239.0	9462.0	9696.5	9940.4	9984.5	10142.4	10186.6
7.5°	7926.8	7917.5	7996.4	8124.2	8414.5	8723.4	9134.5	9619.9	9715.1	10070.5	10242.3
10°	7348.5	7341.5	7425.1	7557.5	7833.9	8126.5	8591.0	9255.2	9390.0	9956.6	10295.7
12.5°	6921.1	6923.4	7007.0	7153.4	7434.4	7729.4	8200.8	8902.2	9074.1	9824.3	10351.5
15°	6637.8	6656.3	6723.7	6879.3	7153.4	7448.3	7910.5	8637.5	8830.2	9719.8	10414.2
17.5°	6542.5	6572.7	6596.0	6709.8	6944.3	7239.3	7692.2	8442.4	8646.7	9647.8	10469.9
20°	6630.8	6665.6	6621.5	6661.0	6809.6	7069.8	7520.3	8289.1	8498.1	9566.5	10476.9
22.5°	7009.4	7041.9	6911.8	6798.0	6788.7	6946.7	7378.6	8168.3	8384.3	9506.1	10479.2
25°	7675.9	7696.8	7478.5	7213.8	6956.0	6902.5	7278.8	8084.7	8314.6	9452.7	10435.1
27.5°	8493.5	8509.7	8258.9	7868.7	7350.8	7007.0	7243.9	8035.9	8275.1	9406.2	10360.8
30°	9487.5	9564.1	9227.4	8735.0	7980.2	7315.9	7313.6	8010.4	8231.0	9327.2	10214.4
32.5°	10504.8	10537.3	10305.0	9805.7	8827.9	7859.4	7508.7	8029.0	8219.4	9232.0	10028.6
35°	11536.0	11577.8	11426.8	11025.0	9986.8	8656.0	7889.6	8138.1	8291.4	9199.5	9898.6
37.5°	12871.4	12927.2	12718.1	12253.6	11396.6	9736.0	8523.7	8412.2	8512.0	9292.4	9859.1
40°	14982.6	14957.0	14346.2	13654.1	12938.8	11117.9	9429.4	8876.7	8934.7	9592.0	9979.9
42.5°	17439.8	17377.1	16325.0	15238.1	14634.2	12790.1	10627.9	9682.6	9671.0	10181.9	10404.9
45°	19400.0	19348.9	18401.3	17061.2	16578.2	14694.6	12177.0	10883.3	10797.4	11117.9	11189.9
47.5°	20461.4	20463.7	19917.9	18824.0	18812.4	17114.7	14167.4	12620.6	12471.9	12622.9	12546.3
50°	20089.8	20138.6	20080.5	19732.1	20851.6	20287.2	16766.3	15043.0	14743.4	14892.0	14597.0
52.5°	18292.2	18354.9	18698.6	19232.8	21708.6	24121.7	20584.5	18053.0	17704.6	17651.2	17323.7
55°	15105.7	15182.3	15883.7	17335.3	20995.6	26697.4	26609.1	21889.8	21334.7	20830.7	20691.3
57.5°	10411.9	10539.6	11668.3	13823.6	18689.3	27475.4	33783.4	27359.3	26230.6	24470.1	24502.6
60°	5869.0	6017.7	7348.5	9306.3	14035.0	26630.0	39241.3	35643.7	33260.8	28731.9	28973.5
62.5°	3732.3	3892.5	4902.8	6465.9	8421.5	22077.9	41477.9	47161.1	44134.9	33985.5	34222.3
65°	3021.6	3091.3	3567.4	5337.2	6115.2	13301.1	39780.1	56648.6	55519.9	40653.4	39547.9
67.5°	2949.6	2972.8	3219.0	4480.1	5864.4	7476.2	31730.3	58423.0	59674.9	46880.1	41765.9
70°	2914.8	2996.1	3627.8	4275.8	5615.9	6305.6	19067.9	53559.7	55536.1	48508.2	38814.0
72.5°	1414.4	1409.8	1825.5	3867.0	6326.5	6540.2	9796.4	43335.9	45319.4	42026.0	31895.2
75°	1140.4	1042.8	996.4	1416.7	6082.7	6753.9	6242.9	29818.8	31254.2	28176.8	19606.7
77.5°	1082.3	966.2	884.9	887.2	2571.0	7162.7	5288.4	16503.8	16921.9	12727.4	5372.0
80°	896.5	789.7	731.6	824.5	1244.9	6821.2	5718.0	7469.2	6853.8	3126.1	1788.3
82.5°	622.4	566.7	550.4	692.1	996.4	4861.0	6649.4	4013.3	3365.3	1565.4	1103.2
85°	397.2	339.1	376.2	504.0	775.7	2243.6	6849.1	3128.4	2487.4	994.0	622.4
87.5°	183.5	148.6	185.8	278.7	506.3	773.4	6517.0	3514.0	2561.7	524.9	392.5
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°	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7
2.5°	10163.4	10119.2	10084.4	10019.4	9947.4	9877.7	9815.0	9736.0	9712.8	9691.9	9724.4
5°	10195.9	10151.7	10024.0	9824.3	9603.6	9396.9	9190.2	9013.7	8904.5	8844.2	8879.0
7.5°	10244.6	10181.9	9917.2	9550.2	9153.1	8790.7	8416.8	8117.2	7896.6	7792.1	7822.3
10°	10288.8	10168.0	9736.0	9185.6	8604.9	8066.1	7476.2	6988.5	6626.2	6435.7	6482.2
12.5°	10307.3	10114.6	9482.9	8730.4	7933.7	7144.1	6275.5	5546.2	5025.9	4835.5	4796.0
15°	10325.9	10054.2	9204.2	8212.4	7123.2	6006.0	4789.0	3915.8	3483.8	3388.6	3367.7
17.5°	10330.6	9949.7	8888.3	7650.4	6173.3	4652.0	3274.8	2719.7	2722.0	2875.3	2893.9
20°	10281.8	9794.1	8505.1	6951.3	5035.2	3216.7	2248.2	2153.0	2503.7	2886.9	2933.3
22.5°	10170.3	9587.4	8070.8	6136.1	3732.3	2118.1	1739.6	1844.1	2297.0	2766.1	2819.5
25°	10028.6	9336.5	7557.5	5190.8	2471.2	1514.3	1458.5	1586.3	1892.9	2206.4	2236.6
27.5°	9835.9	9039.3	6981.5	4108.5	1604.9	1247.2	1284.4	1370.3	1495.7	1635.1	1649.0
30°	9587.4	8683.9	6366.0	2996.1	1212.4	1121.8	1175.2	1221.6	1275.1	1354.0	1361.0
32.5°	9301.7	8342.5	5734.3	2069.4	1075.3	1056.7	1098.6	1121.8	1163.6	1212.4	1217.0
35°	9062.5	8017.3	5079.4	1463.2	1017.3	1008.0	1035.8	1045.1	1084.6	1138.0	1142.7
37.5°	8925.4	7752.6	4403.5	1179.8	977.8	963.8	980.1	980.1	1035.8	1114.8	1126.4
40°	8934.7	7606.3	3727.6	1066.0	945.3	926.7	929.0	929.0	1001.0	1086.9	1093.9
42.5°	9187.9	7643.4	3128.4	1021.9	919.7	898.8	887.2	894.2	954.6	1010.3	1014.9
45°	9782.5	7905.9	2566.4	994.0	894.2	887.2	861.7	859.3	882.6	908.1	908.1
47.5°	10757.9	8423.8	2185.5	975.5	873.3	870.9	840.8	810.6	808.2	817.5	817.5
50°	12344.2	9315.6	1930.0	954.6	859.3	840.8	805.9	759.5	743.2	750.2	750.2
52.5°	14722.5	10906.6	1832.5	926.7	829.1	798.9	759.5	713.0	699.1	701.4	701.4
55°	17841.6	13349.9	1818.5	894.2	796.6	747.9	715.3	680.5	664.2	668.9	668.9
57.5°	21652.9	16729.1	2067.0	843.1	752.5	696.8	678.2	655.0	643.3	650.3	648.0
60°	26286.3	21151.2	3065.7	789.7	708.4	650.3	650.3	631.7	622.4	629.4	627.1
62.5°	31623.4	26230.6	4310.6	750.2	661.9	613.1	622.4	613.1	603.9	608.5	606.2
65°	36356.7	29540.1	4036.5	720.0	615.5	578.3	594.6	589.9	583.0	587.6	585.3
67.5°	36493.8	28313.9	2266.8	687.5	571.3	543.5	566.7	564.4	559.7	564.4	562.1
70°	32568.7	23908.0	1277.4	627.1	524.9	501.7	534.2	531.9	527.2	536.5	534.2
72.5°	26093.5	17349.2	933.7	552.8	478.4	457.5	494.7	492.4	492.4	506.3	499.3
75°	15015.1	8927.8	745.5	473.8	429.7	413.4	445.9	448.2	452.9	471.5	457.5
77.5°	4280.4	2782.4	608.5	401.8	369.3	362.3	394.8	399.5	401.8	422.7	404.1
80°	1590.9	1282.0	501.7	336.8	301.9	304.3	334.4	341.4	343.7	364.6	341.4
82.5°	1014.9	845.4	406.4	260.1	236.9	234.6	271.7	281.0	281.0	283.3	269.4
85°	592.2	506.3	306.6	188.1	167.2	160.3	202.1	218.3	211.3	206.7	197.4
87.5°	397.2	348.4	188.1	104.5	90.6	85.9	118.4	130.1	125.4	118.4	111.5
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)