

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: P269558

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269558  
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-08-LED-E1-SL3-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 45470.1 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-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

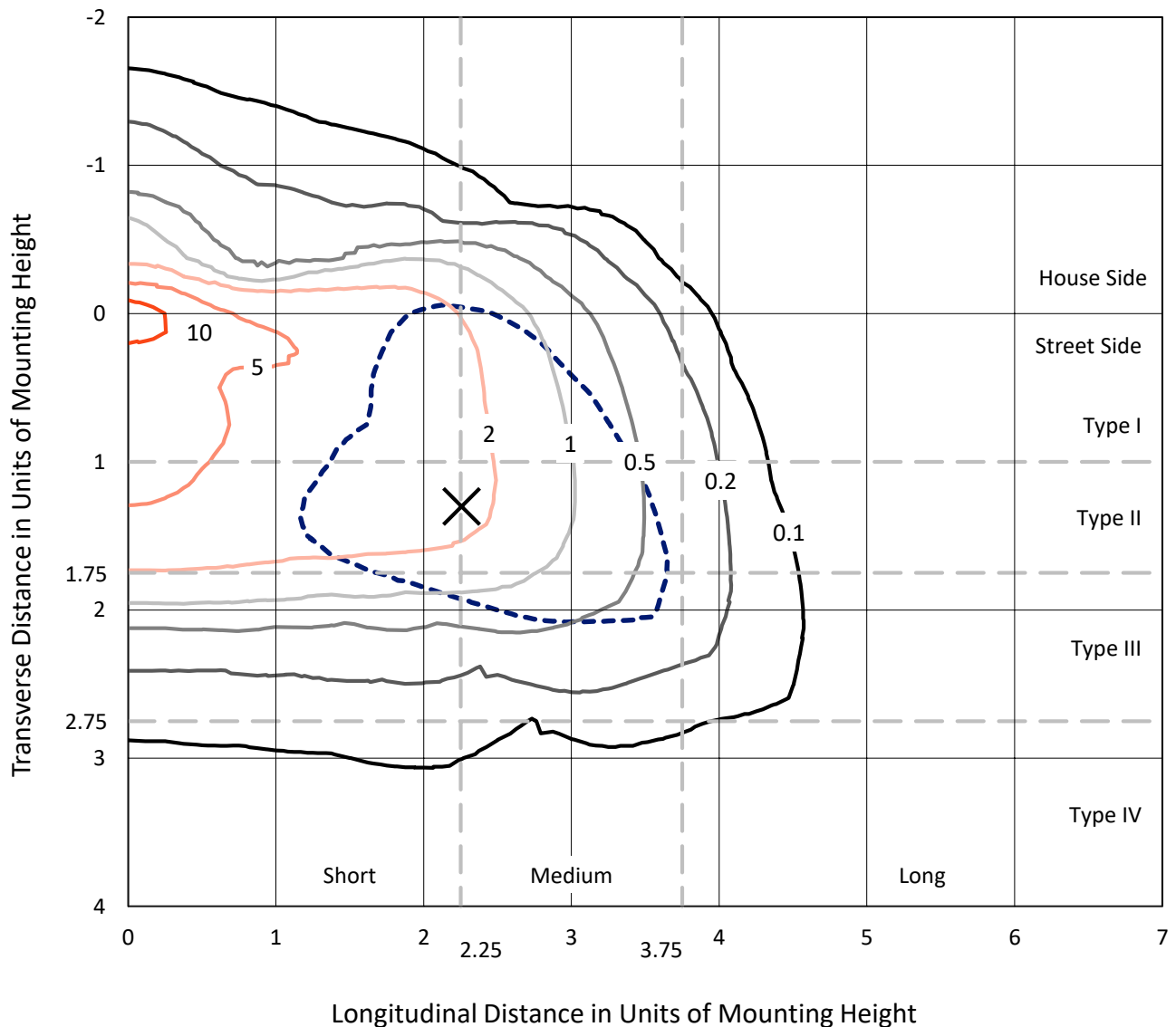


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

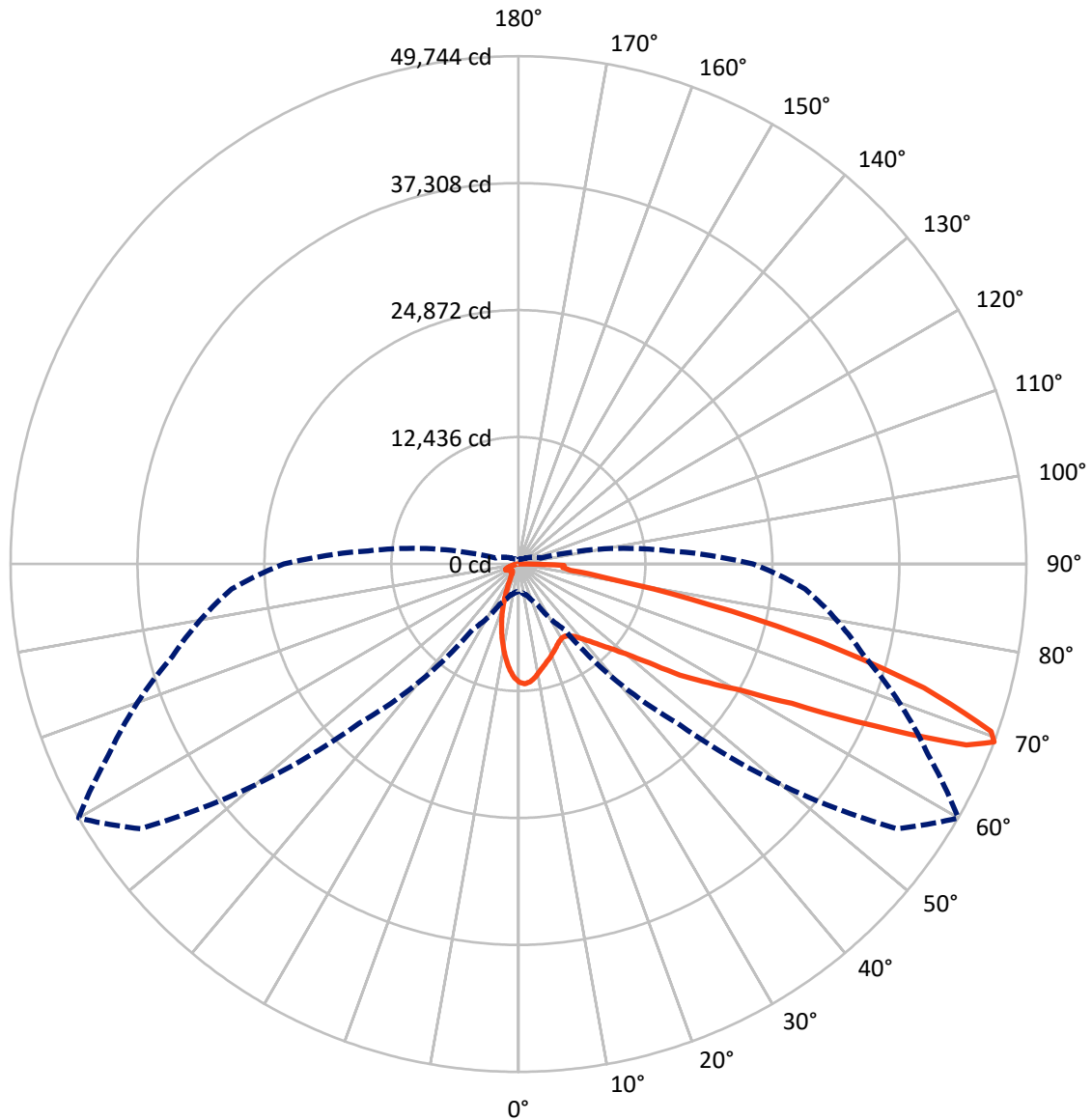


Based on 30 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Medium - Non-Cutoff

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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
<b>House Side</b>	Lumens	6469.0	0.0	6469.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	39001.1	0.0	39001.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	45470.1	0.0	45470.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	979.7	2.2
10°-20°	2087.3	4.6
20°-30°	2659.6	5.8
30°-40°	3656.2	8.0
40°-50°	5932.6	13.0
50°-60°	9514.3	20.9
60°-70°	12662.8	27.8
70°-80°	6836.9	15.0
80°-90°	1140.8	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°	45470.1	100.0
0°-180°	45470.1	100.0

**Coefficient of Utilization**



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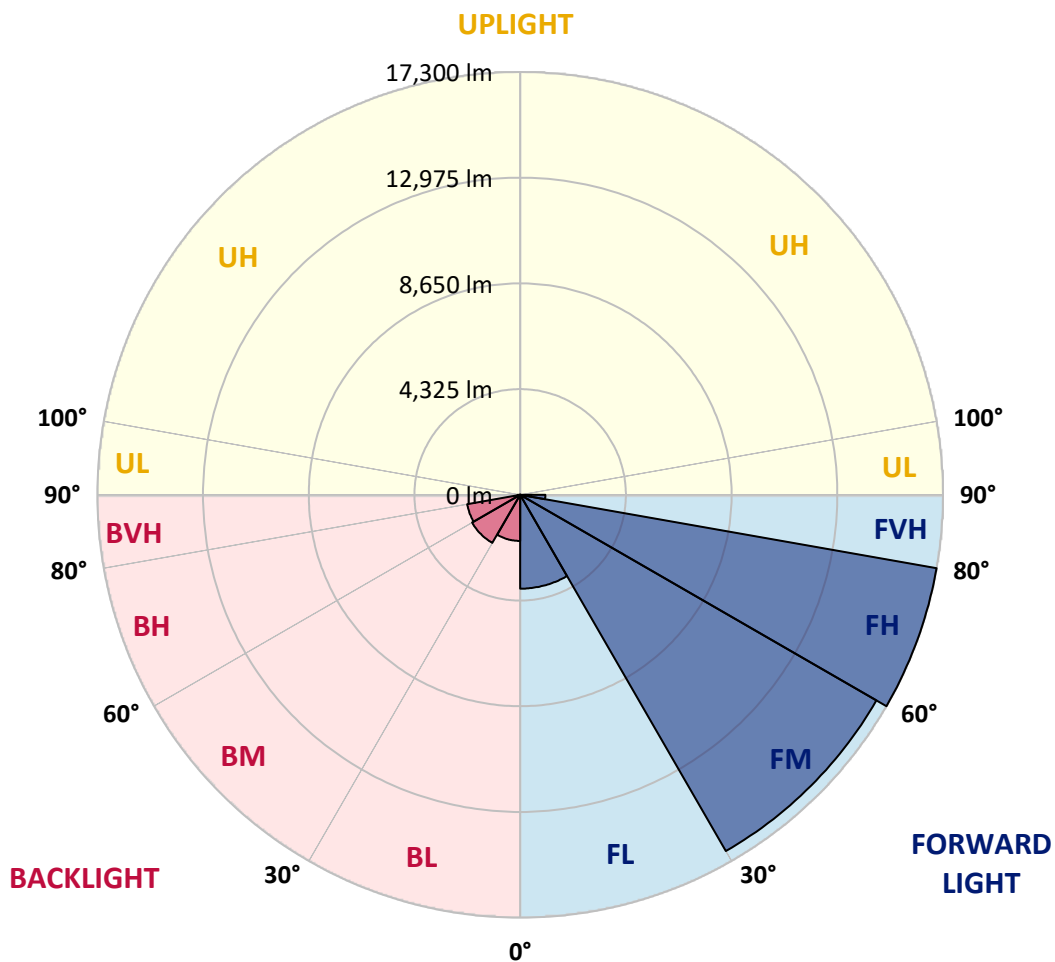
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3839.3	8.4			
FM (30°-60°)	16830.4	37.0			
FH (60°-80°)	17300.5	38.0			G5
FVH (80°-90°)	1030.9	2.3			G5
BL (0°-30°)	1887.2	4.2	B3/2500		
BM (30°-60°)	2272.7	5.0	B2/2500		
BH (60°-80°)	2199.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	109.9	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°	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5
2.5°	11823.8	11850.0	11839.0	11832.5	11852.2	11821.4	11757.7	11738.1	11707.3	11634.8	11511.8
5°	11380.0	11459.0	11454.6	11513.9	11612.7	11639.2	11610.7	11615.1	11558.0	11467.9	11263.6
7.5°	10613.5	10646.4	10663.9	10793.6	10973.6	11118.6	11241.6	11281.2	11254.9	11177.9	10914.3
10°	9822.6	9849.0	9890.8	10042.3	10270.9	10470.6	10703.5	10837.4	10894.6	10881.3	10587.1
12.5°	9143.9	9170.3	9225.2	9396.6	9668.9	9915.0	10253.3	10420.1	10556.3	10637.5	10321.3
15°	8535.5	8592.6	8645.4	8843.0	9148.3	9471.3	9853.5	10064.3	10275.2	10457.4	10086.3
17.5°	8061.1	8118.3	8149.0	8329.1	8654.1	9049.5	9497.6	9745.8	10009.4	10308.1	9853.5
20°	7786.6	7812.9	7799.8	7900.8	8192.9	8612.4	9143.9	9431.8	9750.3	10167.6	9620.6
22.5°	7709.7	7711.9	7663.5	7652.5	7841.5	8195.1	8766.2	9115.5	9506.5	10075.3	9420.7
25°	7896.5	7889.8	7758.0	7650.3	7670.1	7876.6	8401.6	8807.9	9302.0	10055.4	9266.9
27.5°	8311.5	8331.3	8135.8	7933.7	7733.8	7727.2	8124.8	8553.1	9135.1	10145.5	9201.1
30°	8893.6	8926.5	8717.8	8460.9	8085.3	7775.5	8017.2	8401.6	9032.0	10332.2	9190.1
32.5°	9530.6	9565.7	9407.6	9137.4	8645.4	8074.2	8091.8	8414.8	9027.5	10593.6	9264.8
35°	10209.2	10248.9	10167.6	9939.0	9392.1	8625.5	8377.5	8627.9	9170.3	10993.4	9464.6
37.5°	10967.0	11028.5	11050.5	10833.1	10248.9	9352.7	8845.3	9032.0	9493.2	11549.1	9831.5
40°	12058.7	12144.4	12137.8	11825.8	11230.6	10334.6	9567.8	9616.3	9996.2	12291.6	10418.0
42.5°	14149.7	14167.3	13620.5	12941.7	12311.4	11366.9	10420.1	10380.6	10690.3	13231.7	11281.2
45°	16809.8	16737.2	15520.3	14209.1	13440.4	12552.9	11529.3	11336.2	11571.1	14378.2	12361.8
47.5°	19017.2	18850.3	17312.8	15502.8	14635.1	13842.3	12831.8	12493.5	12623.3	15678.5	13758.8
50°	19783.7	19658.6	18384.6	16579.1	15766.4	15414.9	14435.4	13956.4	13991.6	17229.2	15395.2
52.5°	19619.1	19601.5	18751.4	17288.5	16825.1	17066.7	16706.5	16058.6	15715.8	18951.4	17161.1
55°	19230.2	19267.6	18960.0	18114.4	18035.4	18661.3	19673.9	19195.2	18129.9	20688.8	18986.4
57.5°	17879.3	17976.1	18652.5	19153.3	19983.7	20915.0	22063.7	21927.4	20728.2	22566.7	21156.5
60°	14404.5	14628.5	16442.8	18951.4	21989.0	24901.6	25415.6	25099.3	23407.9	24897.2	24023.0
62.5°	10092.8	10325.7	12482.7	16407.7	21659.6	29404.4	31407.6	30043.5	27256.3	28330.2	27732.8
65°	5403.3	5515.4	7162.7	11384.4	18285.8	30333.4	40164.9	38089.3	33349.2	32562.9	30906.7
67.5°	2980.7	3042.1	3672.5	5748.3	11711.7	26711.6	45744.0	47312.3	40964.5	35381.1	30329.0
69°	2695.1	2752.1	3165.2	4353.5	7837.1	22085.6	45199.3	49743.9	44303.1	35102.1	28194.2
70°	2635.7	2688.4	3059.6	4013.0	6343.4	18204.5	43374.0	49122.2	45098.2	34102.6	26331.5
72.5°	2372.2	2429.2	2789.5	3604.4	5420.9	9075.8	34357.5	41533.3	40944.7	29569.1	19972.6
75°	2211.8	2264.5	2875.1	3529.8	5190.2	5743.9	22650.1	30610.3	30098.4	20684.4	10769.4
77.5°	946.6	942.3	1333.3	2987.3	5267.2	5561.4	12170.7	19122.6	17446.7	8840.8	3092.7
80°	632.5	621.5	632.5	878.6	4830.0	5592.3	6376.3	9706.2	7331.8	2253.6	1524.3
82.5°	544.7	536.0	555.7	536.0	1697.8	6382.9	5420.9	5161.8	3485.9	1280.5	755.6
85°	366.8	351.4	478.8	481.0	801.6	5671.3	6106.1	4360.1	2820.3	760.0	373.3
87.5°	175.7	171.3	279.0	340.5	470.1	2304.2	6850.8	4467.6	2844.5	388.7	178.0
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°	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5	11586.5
2.5°	11474.4	11384.4	11296.5	11191.2	11081.3	10958.2	10896.8	10835.3	10819.8	10802.3	10740.9
5°	11158.1	11030.7	10811.1	10569.5	10314.7	10066.4	9877.7	9758.9	9668.9	9622.9	9541.5
7.5°	10749.6	10562.9	10178.5	9761.3	9332.9	8941.9	8603.6	8390.6	8188.5	8094.1	7986.4
10°	10360.8	10081.9	9484.5	8869.4	8254.3	7663.5	7107.7	6714.7	6365.4	6169.9	6031.6
12.5°	10026.9	9644.7	8816.7	7984.2	7140.7	6299.5	5467.1	4812.5	4265.6	3977.9	3830.6
15°	9701.9	9240.7	8181.9	7125.4	6042.4	4898.2	3804.3	3062.0	2609.4	2429.2	2367.8
17.5°	9407.6	8816.7	7545.0	6260.0	4909.1	3525.4	2556.7	2148.1	1974.7	1915.4	1895.6
20°	9089.1	8388.5	6883.8	5355.1	3727.4	2464.5	1996.7	1816.6	1746.2	1728.7	1719.8
22.5°	8781.6	7966.7	6251.1	4386.3	2677.5	1902.2	1715.5	1640.8	1629.7	1645.2	1645.2
25°	8520.2	7588.8	5568.1	3373.9	1965.9	1601.3	1535.4	1517.7	1559.5	1616.6	1627.5
27.5°	8324.8	7279.1	4841.1	2490.8	1566.0	1392.6	1390.3	1419.0	1522.2	1632.0	1654.0
30°	8190.7	6984.9	4063.6	1796.7	1313.5	1225.6	1260.9	1322.2	1473.8	1629.7	1671.6
32.5°	8122.7	6767.4	3253.0	1390.3	1124.6	1076.3	1135.5	1210.2	1359.7	1504.7	1559.5
35°	8175.4	6607.0	2488.7	1159.7	992.7	955.4	1017.1	1089.5	1177.3	1238.9	1280.5
37.5°	8373.0	6543.3	1877.9	1038.9	902.7	867.7	915.9	957.7	992.7	1010.4	1030.1
40°	8799.1	6611.4	1504.7	977.4	852.2	808.4	828.1	843.5	865.3	882.9	891.7
42.5°	9427.4	6815.7	1348.6	953.3	825.9	762.2	757.8	764.4	792.9	825.9	832.5
45°	10306.0	7175.9	1337.7	968.6	812.6	724.8	705.1	713.9	757.8	808.4	817.1
47.5°	11428.2	7725.1	1425.5	1014.7	823.7	705.1	672.1	683.2	738.0	806.0	817.1
50°	12787.9	8491.6	1572.8	1082.8	872.1	709.5	661.2	667.7	724.8	799.5	810.5
52.5°	14393.6	9578.8	1733.0	1148.8	922.5	738.0	670.0	654.5	707.2	773.3	786.3
55°	16179.4	10973.6	1897.8	1208.1	948.9	773.3	687.6	637.0	674.3	729.2	740.3
57.5°	18371.3	12924.2	2183.3	1265.2	966.4	797.3	705.1	619.4	632.5	672.1	680.9
60°	21338.9	15682.9	2686.3	1359.7	1006.0	806.0	702.8	604.0	590.8	612.9	617.2
62.5°	24895.0	18678.9	3105.8	1478.3	1071.9	812.6	689.7	593.1	555.7	555.7	560.2
65°	27005.7	19480.6	2873.0	1577.1	1126.8	806.0	674.3	582.1	529.3	505.1	507.5
67.5°	25215.7	17132.6	2462.3	1596.8	1124.6	775.3	650.2	562.2	503.1	465.6	463.4
69°	22973.1	14782.4	2277.7	1544.1	1071.9	735.8	619.4	540.3	483.2	443.8	441.4
70°	21165.3	13348.0	2156.9	1487.1	1014.7	707.2	595.2	520.6	467.8	430.5	426.2
72.5°	15388.5	8746.3	1842.9	1278.4	837.0	593.1	514.0	456.9	417.4	395.3	391.0
75°	7689.9	4171.1	1495.8	1036.7	641.4	474.5	421.8	382.1	362.5	358.1	355.8
77.5°	2525.9	1911.0	1069.7	773.3	476.6	371.2	340.5	311.9	307.5	320.6	316.4
80°	1388.2	1111.5	678.7	511.8	325.0	272.4	268.0	252.7	259.3	281.2	276.8
82.5°	707.2	577.7	419.5	307.5	219.6	195.6	213.1	204.3	213.1	232.8	230.7
85°	349.3	316.4	265.8	186.7	144.9	125.3	151.5	158.1	162.6	178.0	178.0
87.5°	202.1	186.7	140.6	87.9	72.6	65.8	87.9	85.7	101.0	109.9	107.6
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)