

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: P191986

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191986  
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-SL3-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 52336 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B4 - 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

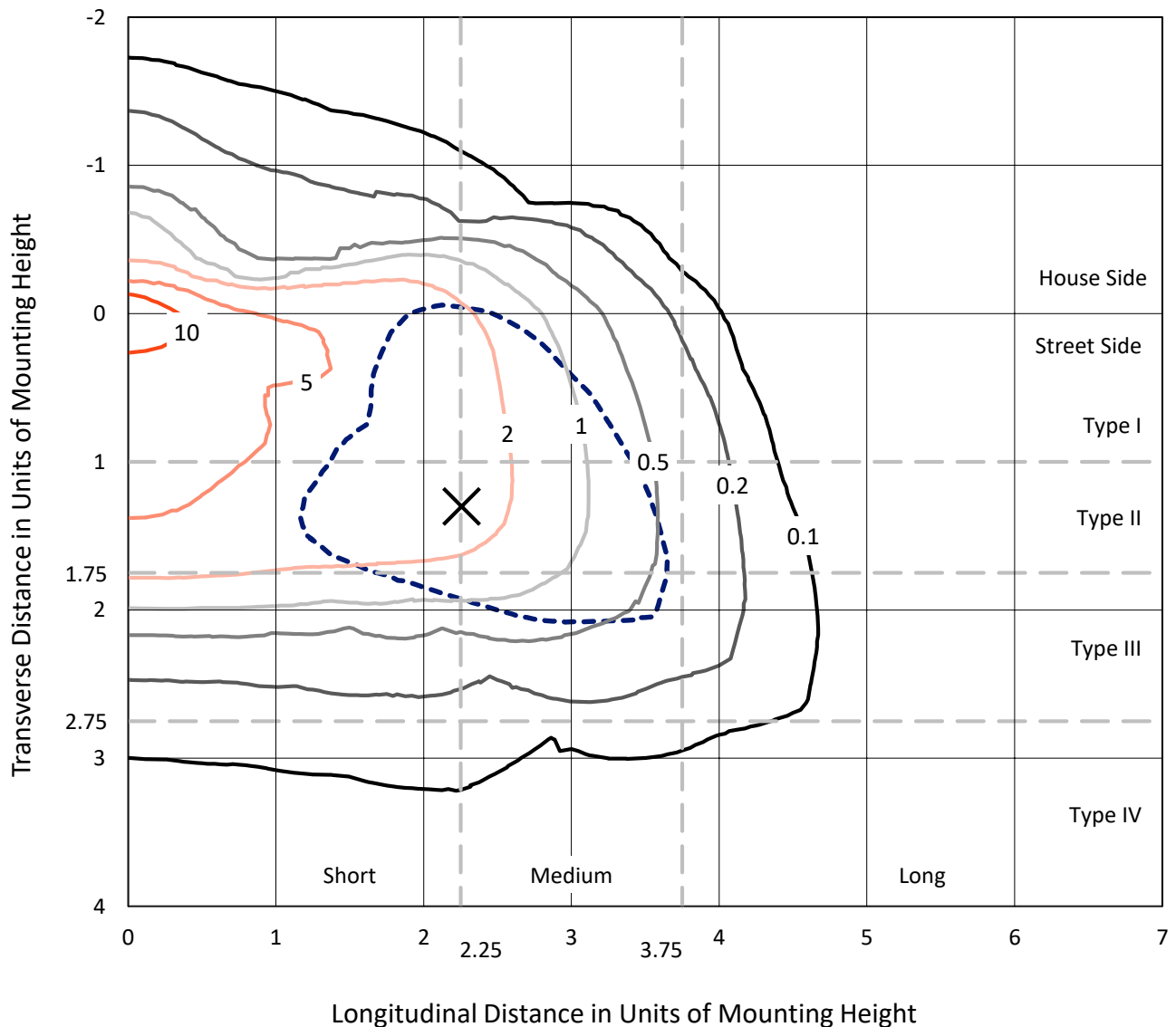


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

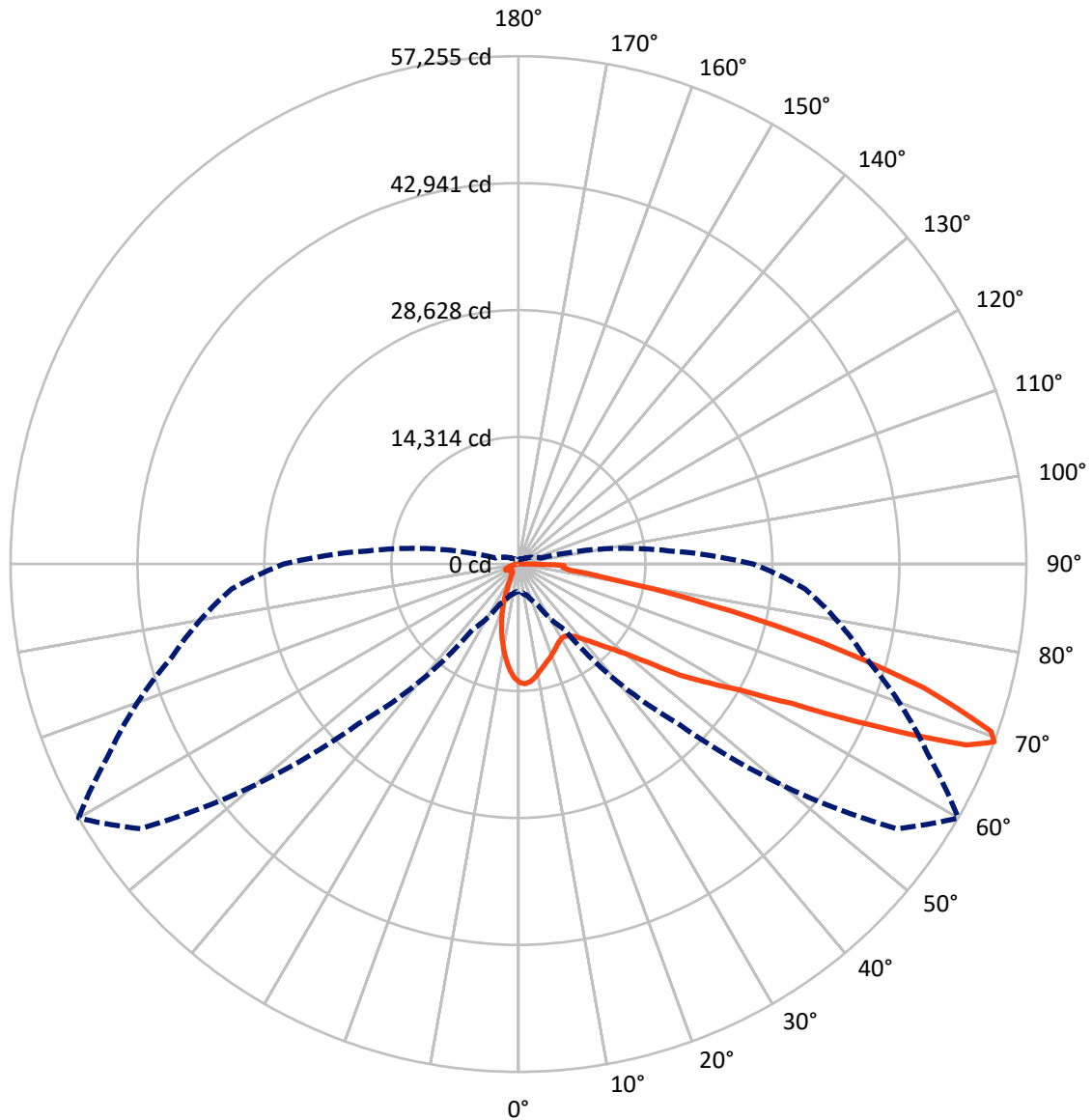


Based on 30 foot mounting height. Maximum calculated value = 14.8 fc  
 Type III - Medium - Non-Cutoff

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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	7445.8	0.0	7445.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	44890.2	0.0	44890.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	52336.0	0.0	52336.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1127.6	2.2
10°-20°	2402.4	4.6
20°-30°	3061.1	5.8
30°-40°	4208.3	8.0
40°-50°	6828.4	13.0
50°-60°	10950.9	20.9
60°-70°	14574.9	27.8
70°-80°	7869.3	15.0
80°-90°	1313.0	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°	52336.0	100.0
0°-180°	52336.0	100.0

**Coefficient of Utilization**



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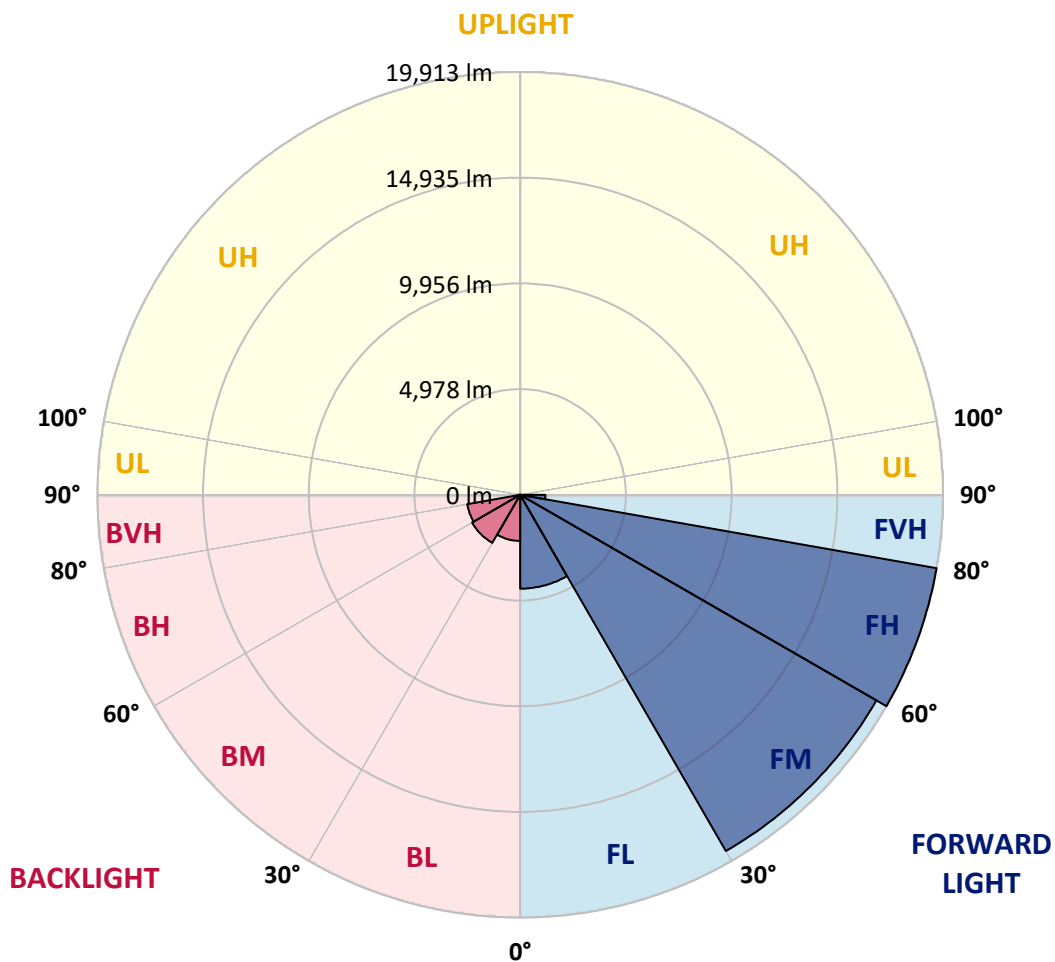
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4419.0	8.4			
FM (30°-60°)	19371.7	37.0			
FH (60°-80°)	19912.8	38.0			G5
FVH (80°-90°)	1186.6	2.3			G5
BL (0°-30°)	2172.2	4.2	B3/2500		
BM (30°-60°)	2615.8	5.0	B3/5000		
BH (60°-80°)	2531.3	4.8	B4/5000		G4/5000
BVH (80°-90°)	126.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0
2.5°	13609.0	13639.4	13626.7	13619.2	13641.9	13606.5	13533.2	13510.5	13475.1	13391.6	13250.1
5°	13098.4	13189.4	13184.3	13252.6	13366.3	13396.7	13363.8	13368.9	13303.1	13199.5	12964.4
7.5°	12216.0	12254.0	12274.2	12423.3	12630.7	12797.5	12939.1	12984.6	12954.3	12865.8	12562.4
10°	11305.9	11336.2	11384.3	11558.7	11821.6	12051.7	12319.7	12473.9	12539.6	12524.5	12185.7
12.5°	10524.7	10555.0	10618.2	10815.4	11128.9	11412.1	11801.4	11993.6	12150.3	12243.8	11879.8
15°	9824.4	9890.1	9950.8	10178.3	10529.8	10901.4	11341.3	11584.0	11826.7	12036.5	11609.3
17.5°	9278.3	9344.1	9379.4	9586.8	9960.9	10416.0	10931.7	11217.4	11520.8	11864.6	11341.3
20°	8962.3	8992.6	8977.5	9093.8	9430.0	9912.9	10524.7	10855.9	11222.5	11702.8	11073.3
22.5°	8873.8	8876.3	8820.7	8808.1	9025.5	9432.5	10089.9	10491.8	10941.8	11596.6	10843.2
25°	9088.7	9081.1	8929.4	8805.6	8828.3	9066.0	9670.2	10137.9	10706.7	11573.9	10666.3
27.5°	9566.5	9589.3	9364.3	9131.7	8901.6	8894.0	9351.6	9844.6	10514.6	11677.5	10590.4
30°	10236.5	10274.4	10034.2	9738.4	9306.1	8949.7	9227.8	9670.2	10395.8	11892.4	10577.8
32.5°	10969.7	11010.1	10828.1	10517.1	9950.8	9293.5	9313.7	9685.4	10390.7	12193.3	10663.7
35°	11750.9	11796.4	11702.8	11439.9	10810.4	9928.1	9642.4	9930.6	10555.0	12653.4	10893.8
37.5°	12623.1	12693.9	12719.1	12468.9	11796.4	10764.9	10180.9	10395.8	10926.7	13293.0	11316.0
40°	13879.6	13978.2	13970.6	13611.6	12926.4	11895.0	11012.6	11068.3	11505.6	14147.5	11991.0
42.5°	16286.4	16306.6	15677.1	14895.9	14170.3	13083.2	11993.6	11948.1	12304.5	15229.6	12984.6
45°	19348.0	19264.5	17863.9	16354.6	15469.8	14448.4	13270.3	13047.8	13318.3	16549.3	14228.4
47.5°	21888.7	21696.6	19926.9	17843.7	16845.1	15932.4	14769.5	14380.1	14529.3	18046.0	15836.4
50°	22771.1	22627.0	21160.6	19082.5	18147.1	17742.6	16615.0	16063.9	16104.3	19830.8	17719.8
52.5°	22581.5	22561.2	21582.8	19899.1	19365.7	19643.7	19229.1	18483.3	18088.9	21812.9	19752.5
55°	22134.0	22177.0	21823.0	20849.7	20758.7	21479.2	22644.7	22093.5	20867.4	23812.7	21853.4
57.5°	20579.2	20690.4	21469.1	22045.5	23001.1	24073.1	25395.3	25238.6	23858.2	25974.2	24351.2
60°	16579.6	16837.5	18925.8	21812.9	25309.3	28661.7	29253.3	28889.2	26942.5	28656.6	27650.4
62.5°	11616.9	11884.8	14367.5	18885.3	24930.1	33844.4	36150.1	34580.1	31371.9	32608.1	31920.5
65°	6219.3	6348.2	8244.3	13103.4	21046.9	34913.8	46229.8	43840.7	38384.9	37479.9	35573.6
67.5°	3430.7	3501.5	4227.1	6616.2	13480.1	30744.9	52651.3	54456.4	47150.1	40723.5	34908.7
69°	3102.0	3167.8	3643.1	5010.8	9020.5	25420.6	52024.3	57255.1	50992.8	40402.4	32451.4
70°	3033.8	3094.5	3521.7	4618.9	7301.3	20953.3	49923.4	56539.6	51908.0	39252.1	30307.5
72.5°	2730.4	2796.1	3210.8	4148.7	6239.5	10446.3	39545.4	47804.8	47127.3	34034.0	22988.5
75°	2545.9	2606.5	3309.4	4062.7	5974.0	6611.1	26070.3	35232.3	34643.3	23807.6	12395.5
77.5°	1089.6	1084.6	1534.6	3438.3	6062.5	6401.3	14008.5	22010.1	20081.1	10175.8	3559.6
80°	728.1	715.5	728.1	1011.3	5559.4	6436.7	7339.2	11171.9	8439.0	2593.9	1754.5
82.5°	627.0	616.9	639.6	616.9	1954.3	7346.8	6239.5	5941.2	4012.2	1473.9	869.7
85°	422.2	404.5	551.1	553.7	922.8	6527.7	7028.3	5018.4	3246.1	874.7	429.8
87.5°	202.3	197.2	321.1	391.9	541.0	2652.0	7885.3	5142.3	3274.0	447.5	204.8
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°	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0	13336.0
2.5°	13207.1	13103.4	13002.3	12880.9	12754.5	12613.0	12542.2	12471.4	12453.7	12433.5	12362.7
5°	12843.0	12696.4	12443.6	12165.5	11872.2	11586.5	11369.1	11232.6	11128.9	11075.8	10982.3
7.5°	12372.8	12157.9	11715.5	11235.1	10742.1	10292.1	9902.8	9657.5	9425.0	9316.2	9192.4
10°	11925.3	11604.2	10916.6	10208.7	9500.8	8820.7	8181.1	7728.6	7326.6	7101.6	6942.3
12.5°	11541.0	11101.1	10148.0	9189.8	8219.0	7250.7	6292.6	5539.2	4909.7	4578.5	4409.1
15°	11166.9	10635.9	9417.4	8201.3	6954.9	5637.8	4378.8	3524.2	3003.4	2796.1	2725.3
17.5°	10828.1	10148.0	8684.2	7205.2	5650.4	4057.7	2942.8	2472.5	2272.8	2204.5	2181.8
20°	10461.5	9655.0	7923.2	6163.6	4290.3	2836.6	2298.1	2090.8	2009.9	1989.7	1979.5
22.5°	10107.6	9169.6	7195.1	5048.7	3081.8	2189.4	1974.5	1888.5	1875.9	1893.6	1893.6
25°	9806.7	8734.8	6408.9	3883.2	2262.7	1843.0	1767.2	1747.0	1795.0	1860.7	1873.4
27.5°	9581.7	8378.3	5572.0	2866.9	1802.6	1602.8	1600.3	1633.2	1752.0	1878.4	1903.7
30°	9427.5	8039.5	4677.1	2068.0	1511.8	1410.7	1451.2	1521.9	1696.4	1875.9	1923.9
32.5°	9349.1	7789.2	3744.2	1600.3	1294.4	1238.8	1307.1	1393.0	1564.9	1731.8	1795.0
35°	9409.8	7604.7	2864.4	1334.9	1142.7	1099.7	1170.5	1254.0	1355.1	1425.9	1473.9
37.5°	9637.3	7531.4	2161.6	1195.8	1039.1	998.6	1054.2	1102.3	1142.7	1163.0	1185.7
40°	10127.8	7609.7	1731.8	1125.0	980.9	930.4	953.1	970.8	996.1	1016.3	1026.4
42.5°	10850.8	7844.9	1552.3	1097.2	950.6	877.3	872.2	879.8	912.7	950.6	958.2
45°	11862.1	8259.5	1539.6	1114.9	935.4	834.3	811.5	821.6	872.2	930.4	940.5
47.5°	13154.0	8891.5	1640.8	1168.0	948.1	811.5	773.6	786.3	849.5	927.8	940.5
50°	14718.9	9773.8	1810.2	1246.4	1003.7	816.6	761.0	768.6	834.3	920.2	932.9
52.5°	16567.0	11025.3	1994.7	1322.2	1061.8	849.5	771.1	753.4	814.1	889.9	905.1
55°	18622.4	12630.7	2184.3	1390.5	1092.2	889.9	791.3	733.2	776.1	839.3	852.0
57.5°	21145.5	14875.7	2513.0	1456.2	1112.4	917.7	811.5	712.9	728.1	773.6	783.7
60°	24561.0	18051.0	3091.9	1564.9	1157.9	927.8	809.0	695.2	680.1	705.4	710.4
62.5°	28654.1	21499.4	3574.8	1701.4	1233.7	935.4	793.8	682.6	639.6	639.6	644.7
65°	31083.6	22422.2	3306.8	1815.2	1296.9	927.8	776.1	670.0	609.3	581.5	584.0
67.5°	29023.2	19719.6	2834.1	1838.0	1294.4	892.4	748.3	647.2	578.9	536.0	533.4
69°	26442.0	17014.5	2621.7	1777.3	1233.7	846.9	712.9	621.9	556.2	510.7	508.2
70°	24361.3	15363.6	2482.6	1711.6	1168.0	814.1	685.1	599.2	538.5	495.5	490.5
72.5°	17712.2	10067.1	2121.1	1471.4	963.2	682.6	591.6	525.9	480.3	455.1	450.0
75°	8851.1	4801.0	1721.7	1193.3	738.2	546.1	485.4	439.9	417.1	412.1	409.6
77.5°	2907.4	2199.5	1231.2	889.9	548.6	427.3	391.9	359.0	353.9	369.1	364.1
80°	1597.8	1279.2	781.2	589.1	374.2	313.5	308.4	290.7	298.3	323.6	318.5
82.5°	814.1	664.9	482.9	353.9	252.8	225.0	245.2	235.1	245.2	268.0	265.5
85°	402.0	364.1	305.9	214.9	166.9	144.1	174.4	182.0	187.1	204.8	204.8
87.5°	232.6	214.9	161.8	101.1	83.4	75.8	101.1	98.6	116.3	126.4	123.9
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)