

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: P191965

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191965  
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-07-LED-E1-SL3-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA 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: 34019 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

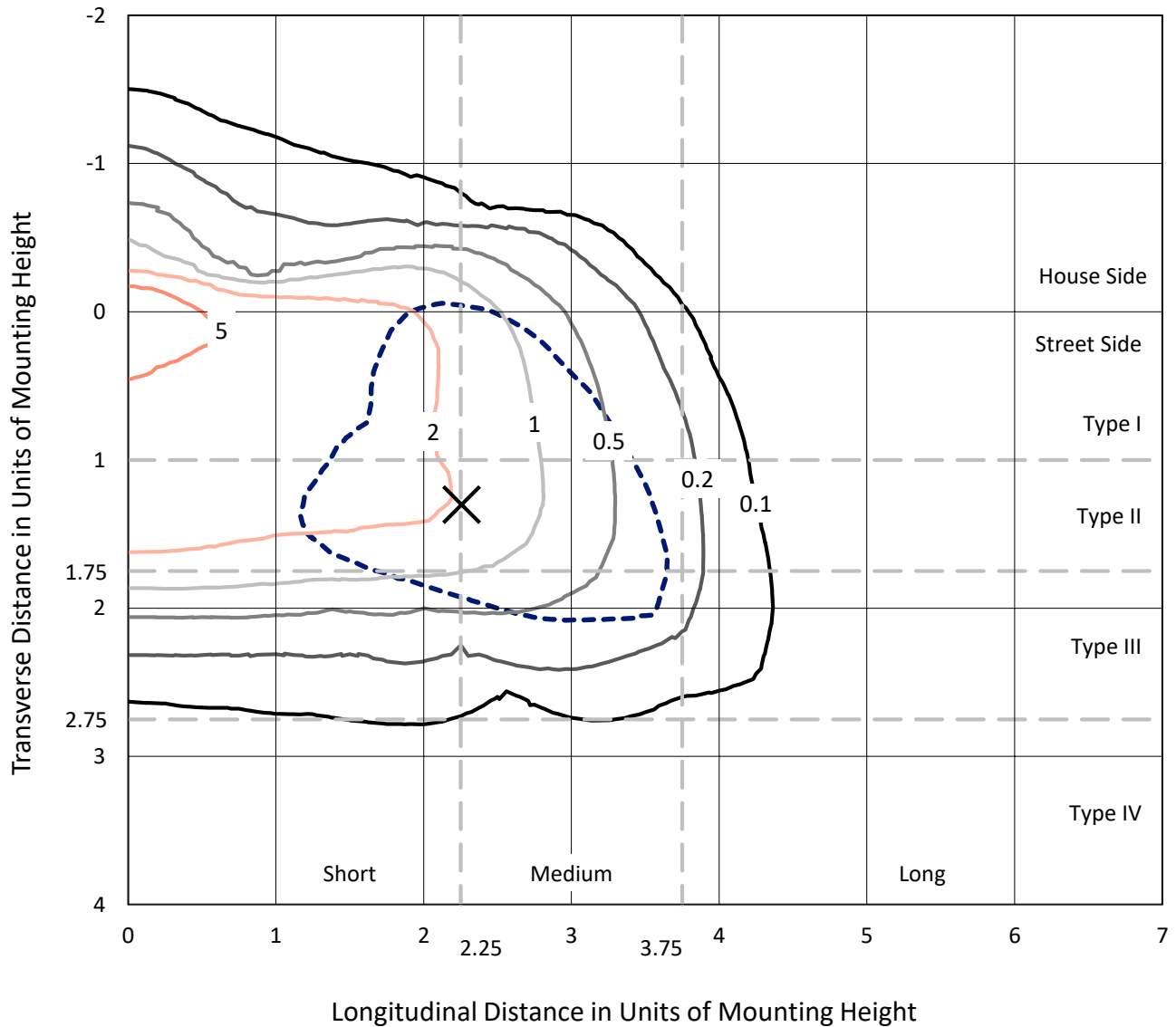
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

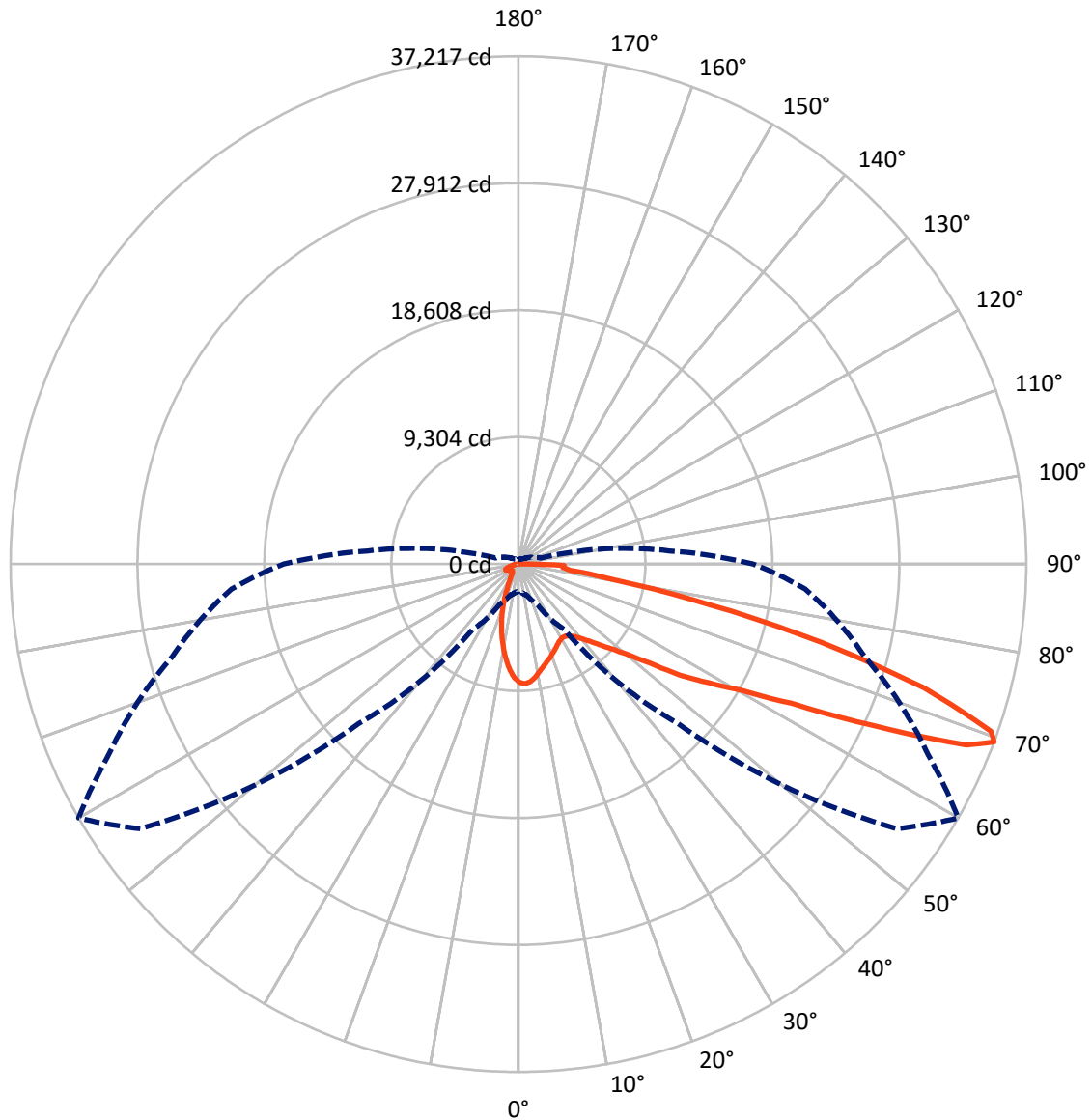
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	4839.8	0.0	4839.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	29179.2	0.0	29179.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	34019.0	0.0	34019.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	733.0	2.2
10°-20°	1561.6	4.6
20°-30°	1989.8	5.8
30°-40°	2735.4	8.0
40°-50°	4438.5	13.0
50°-60°	7118.2	20.9
60°-70°	9473.8	27.8
70°-80°	5115.1	15.0
80°-90°	853.5	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°	34019.0	100.0
0°-180°	34019.0	100.0



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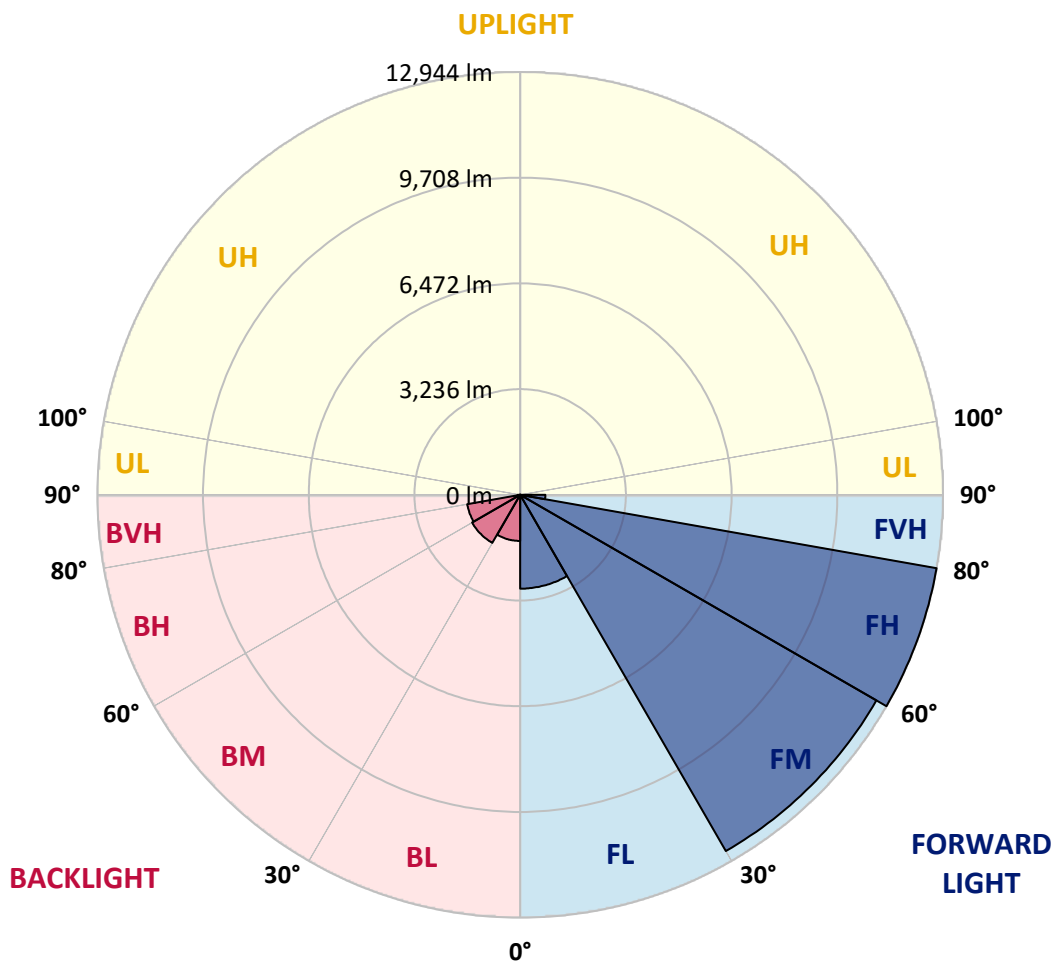
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.4	8.4			
FM (30°-60°)	12591.9	37.0			
FH (60°-80°)	12943.6	38.0			G5
FVH (80°-90°)	771.3	2.3			G5
BL (0°-30°)	1411.9	4.2	B3/2500		
BM (30°-60°)	1700.3	5.0	B2/2500		
BH (60°-80°)	1645.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	82.2	0.2			G1/100
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°	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6
2.5°	8846.0	8865.8	8857.5	8852.6	8867.4	8844.4	8796.7	8781.9	8758.9	8704.7	8612.7
5°	8514.1	8573.2	8570.0	8614.3	8688.3	8708.0	8686.6	8689.9	8647.2	8579.8	8427.0
7.5°	7940.6	7965.2	7978.4	8075.3	8210.1	8318.5	8410.6	8440.1	8420.4	8362.9	8165.7
10°	7349.0	7368.7	7399.9	7513.3	7684.2	7833.7	8007.9	8108.2	8150.9	8141.0	7920.8
12.5°	6841.2	6860.9	6902.0	7030.2	7233.9	7418.0	7671.1	7796.0	7897.8	7958.6	7722.0
15°	6386.0	6428.7	6468.1	6616.0	6844.5	7086.0	7372.0	7529.7	7687.5	7823.9	7546.2
17.5°	6031.0	6073.7	6096.7	6231.5	6474.7	6770.5	7105.8	7291.4	7488.6	7712.1	7372.0
20°	5825.6	5845.3	5835.5	5911.1	6129.6	6443.5	6841.2	7056.5	7294.7	7607.0	7197.8
22.5°	5768.1	5769.7	5733.6	5725.4	5866.7	6131.3	6558.5	6819.8	7112.3	7537.9	7048.2
25°	5907.8	5902.8	5804.2	5723.7	5738.5	5893.0	6285.7	6589.7	6959.5	7523.2	6933.2
27.5°	6218.4	6233.1	6086.9	5935.7	5786.2	5781.2	6078.7	6399.1	6834.6	7590.5	6883.9
30°	6653.8	6678.5	6522.4	6330.1	6049.1	5817.4	5998.1	6285.7	6757.4	7730.2	6875.7
32.5°	7130.4	7156.7	7038.4	6836.2	6468.1	6040.9	6054.0	6295.6	6754.1	7925.8	6931.6
35°	7638.2	7667.8	7607.0	7436.1	7026.9	6453.4	6267.7	6455.0	6860.9	8224.9	7081.1
37.5°	8205.1	8251.2	8267.6	8104.9	7667.8	6997.3	6617.7	6757.4	7102.5	8640.6	7355.5
40°	9021.9	9086.0	9081.0	8847.7	8402.3	7731.9	7158.3	7194.5	7478.8	9196.1	7794.3
42.5°	10586.3	10599.5	10190.3	9682.5	9210.9	8504.2	7796.0	7766.4	7998.1	9899.4	8440.1
45°	12576.4	12522.2	11611.8	10630.7	10055.5	9391.6	8625.8	8481.2	8657.1	10757.2	9248.7
47.5°	14227.9	14103.0	12952.7	11598.6	10949.5	10356.3	9600.3	9347.3	9444.2	11730.1	10293.8
50°	14801.5	14707.8	13754.7	12403.8	11795.8	11532.9	10800.0	10441.7	10468.0	12890.3	11518.1
52.5°	14678.2	14665.1	14029.1	12934.6	12587.9	12768.7	12499.2	12014.4	11758.0	14178.6	12839.3
55°	14387.3	14415.3	14185.2	13552.5	13493.4	13961.7	14719.3	14361.0	13564.0	15478.5	14204.9
57.5°	13376.7	13449.0	13955.1	14329.8	14951.0	15647.8	16507.2	16405.3	15508.1	16883.6	15828.5
60°	10776.9	10944.6	12302.0	14178.6	16451.4	18630.4	19015.0	18778.3	17513.0	18627.1	17973.1
62.5°	7551.1	7725.3	9339.0	12275.7	16204.9	21999.2	23498.0	22477.4	20392.1	21195.7	20748.7
65°	4042.6	4126.4	5358.9	8517.4	13680.7	22694.4	30049.9	28497.0	24950.7	24362.3	23123.3
67.5°	2230.0	2276.0	2747.6	4300.6	8762.2	19984.5	34224.0	35397.3	30648.1	26470.7	22691.1
69°	2016.4	2059.1	2368.0	3257.1	5863.4	16523.7	33816.4	37216.5	33145.9	26262.0	21093.8
70°	1972.0	2011.4	2289.2	3002.4	4745.9	13619.9	32450.8	36751.4	33740.8	25514.3	19700.2
72.5°	1774.8	1817.5	2087.0	2696.7	4055.7	6790.2	25704.9	31073.7	30633.3	22122.5	14942.8
75°	1654.8	1694.3	2151.1	2640.8	3883.2	4297.3	16946.0	22901.4	22518.5	15475.2	8057.2
77.5°	708.3	705.0	997.5	2234.9	3940.7	4160.9	9105.7	14306.8	13053.0	6614.4	2313.8
80°	473.3	465.1	473.3	657.3	3613.7	4183.9	4770.6	7261.9	5485.4	1686.1	1140.5
82.5°	407.5	401.0	415.8	401.0	1270.3	4775.5	4055.7	3861.8	2608.0	958.1	565.3
85°	274.4	262.9	358.2	359.9	599.8	4243.1	4568.5	3262.0	2110.0	568.6	279.4
87.5°	131.5	128.2	208.7	254.7	351.7	1723.9	5125.5	3342.5	2128.1	290.9	133.1
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°	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6	8668.6
2.5°	8584.7	8517.4	8451.6	8372.8	8290.6	8198.6	8152.6	8106.5	8095.0	8081.9	8035.9
5°	8348.1	8252.8	8088.5	7907.7	7717.1	7531.4	7390.0	7301.3	7233.9	7199.4	7138.6
7.5°	8042.4	7902.8	7615.2	7303.0	6982.5	6690.0	6436.9	6277.5	6126.3	6055.7	5975.1
10°	7751.6	7542.9	7095.9	6635.8	6175.6	5733.6	5317.8	5023.7	4762.4	4616.1	4512.6
12.5°	7501.8	7215.9	6596.3	5973.5	5342.5	4713.1	4090.2	3600.5	3191.3	2976.1	2866.0
15°	7258.6	6913.5	6121.4	5331.0	4520.8	3664.6	2846.2	2290.8	1952.3	1817.5	1771.5
17.5°	7038.4	6596.3	5644.8	4683.5	3672.8	2637.5	1912.8	1607.2	1477.4	1433.0	1418.2
20°	6800.1	6275.9	5150.2	4006.4	2788.7	1843.8	1493.8	1359.0	1306.4	1293.3	1286.7
22.5°	6570.0	5960.4	4676.9	3281.7	2003.2	1423.1	1283.4	1227.6	1219.3	1230.9	1230.9
25°	6374.5	5677.7	4165.8	2524.2	1470.8	1198.0	1148.7	1135.5	1166.8	1209.5	1217.7
27.5°	6228.2	5446.0	3621.9	1863.5	1171.7	1041.9	1040.2	1061.6	1138.8	1221.0	1237.4
30°	6128.0	5225.8	3040.2	1344.2	982.7	917.0	943.3	989.3	1102.7	1219.3	1250.6
32.5°	6077.0	5063.1	2433.8	1040.2	841.4	805.2	849.6	905.5	1017.2	1125.7	1166.8
35°	6116.5	4943.1	1861.9	867.7	742.8	714.8	760.9	815.1	880.8	926.8	958.1
37.5°	6264.4	4895.5	1405.0	777.3	675.4	649.1	685.3	716.5	742.8	755.9	770.7
40°	6583.2	4946.4	1125.7	731.3	637.6	604.7	619.5	631.0	647.5	660.6	667.2
42.5°	7053.2	5099.2	1009.0	713.2	617.9	570.2	566.9	571.9	593.2	617.9	622.8
45°	7710.5	5368.8	1000.8	724.7	608.0	542.3	527.5	534.1	566.9	604.7	611.3
47.5°	8550.2	5779.6	1066.5	759.2	616.2	527.5	502.9	511.1	552.2	603.1	611.3
50°	9567.5	6353.1	1176.6	810.2	652.4	530.8	494.6	499.6	542.3	598.2	606.4
52.5°	10768.7	7166.6	1296.6	859.5	690.2	552.2	501.2	489.7	529.2	578.5	588.3
55°	12104.8	8210.1	1419.8	903.8	709.9	578.5	514.4	476.6	504.5	545.6	553.8
57.5°	13744.8	9669.3	1633.5	946.6	723.1	596.5	527.5	463.4	473.3	502.9	509.4
60°	15964.9	11733.4	2009.8	1017.2	752.6	603.1	525.9	451.9	442.1	458.5	461.8
62.5°	18625.5	13974.9	2323.7	1106.0	801.9	608.0	516.0	443.7	415.8	415.8	419.0
65°	20204.7	14574.7	2149.5	1179.9	843.0	603.1	504.5	435.5	396.0	378.0	379.6
67.5°	18865.4	12818.0	1842.2	1194.7	841.4	580.1	486.4	420.7	376.3	348.4	346.7
69°	17187.6	11059.6	1704.1	1155.3	801.9	550.5	463.4	404.3	361.5	332.0	330.3
70°	15835.1	9986.5	1613.7	1112.5	759.2	529.2	445.3	389.5	350.0	322.1	318.8
72.5°	11513.2	6543.7	1378.8	956.4	626.1	443.7	384.5	341.8	312.2	295.8	292.5
75°	5753.3	3120.7	1119.1	775.7	479.9	355.0	315.5	285.9	271.1	267.9	266.2
77.5°	1889.8	1429.7	800.3	578.5	356.6	277.7	254.7	233.4	230.1	239.9	236.6
80°	1038.6	831.5	507.8	382.9	243.2	203.8	200.5	189.0	193.9	210.3	207.1
82.5°	529.2	432.2	313.9	230.1	164.3	146.3	159.4	152.8	159.4	174.2	172.5
85°	261.3	236.6	198.8	139.7	108.5	93.7	113.4	118.3	121.6	133.1	133.1
87.5°	151.2	139.7	105.2	65.7	54.2	49.3	65.7	64.1	75.6	82.2	80.5
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)