

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: P193716

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193716  
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-SL3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA 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: 38930 lumens  
Efficiency: N/A  
Efficacy: 87.5 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

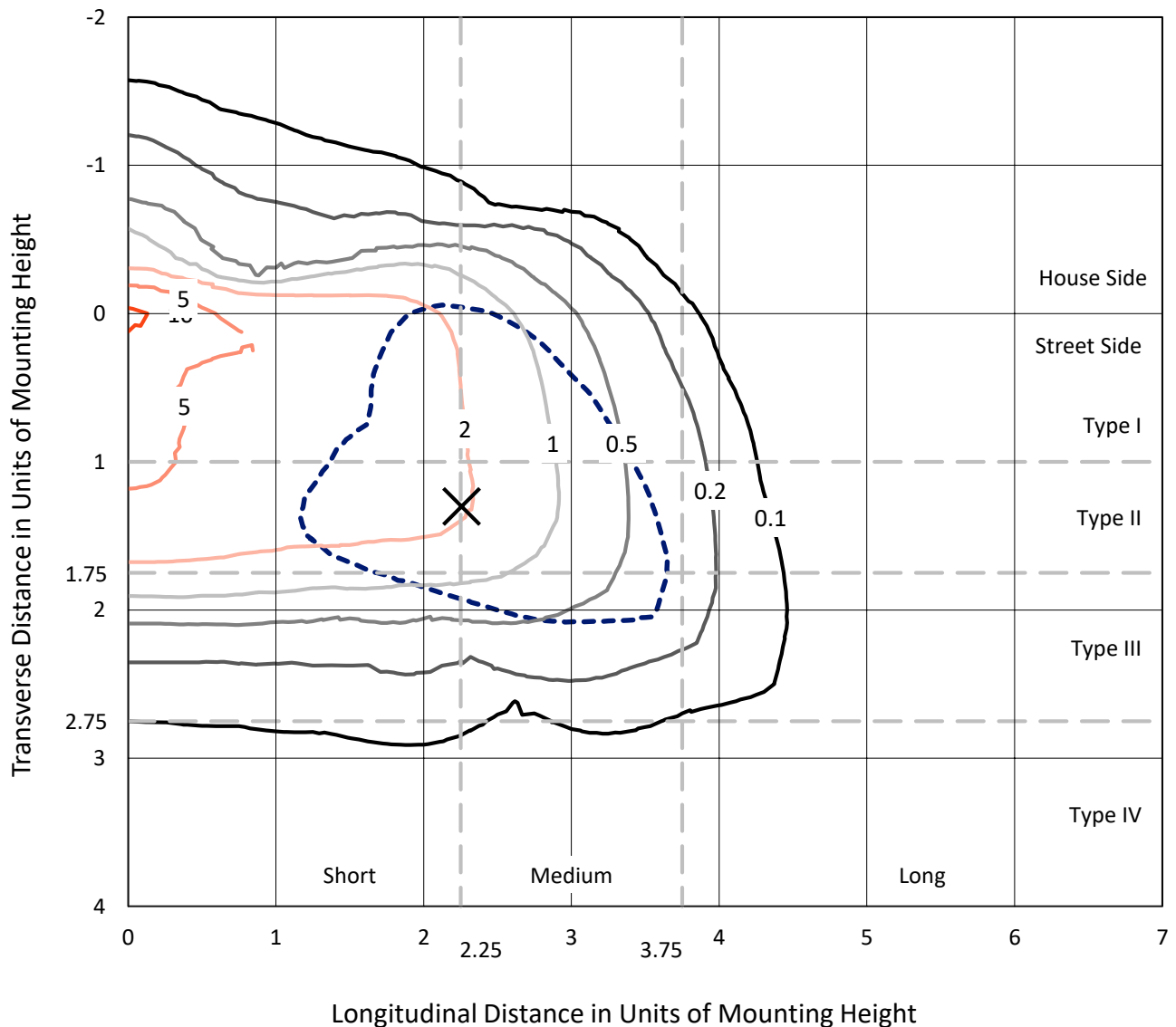
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

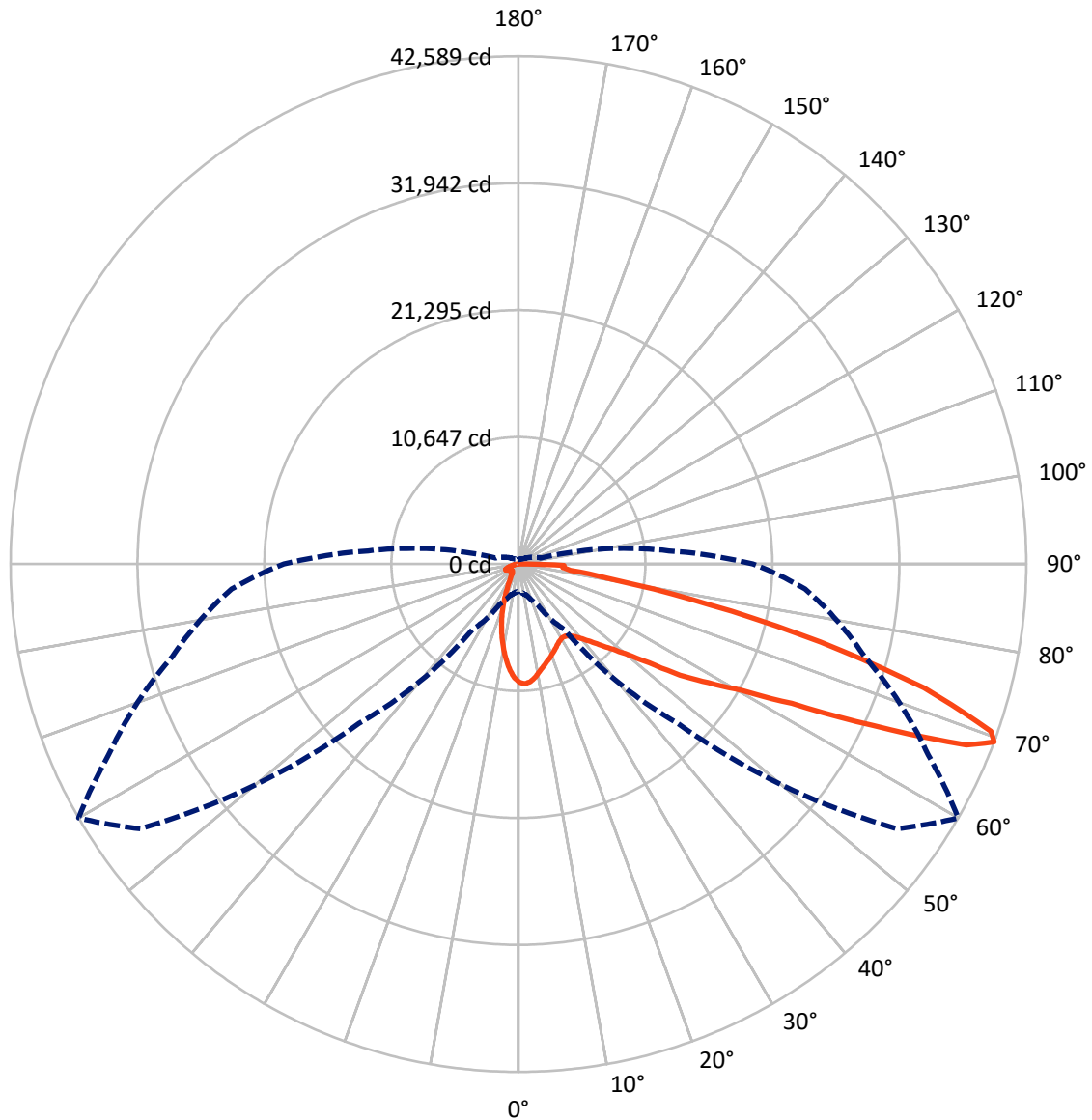
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	5538.5	0.0	5538.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	33391.5	0.0	33391.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	38930.0	0.0	38930.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.8	2.2
10°-20°	1787.1	4.6
20°-30°	2277.0	5.8
30°-40°	3130.3	8.0
40°-50°	5079.3	13.0
50°-60°	8145.8	20.9
60°-70°	10841.5	27.8
70°-80°	5853.6	15.0
80°-90°	976.7	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°	38930.0	100.0
0°-180°	38930.0	100.0



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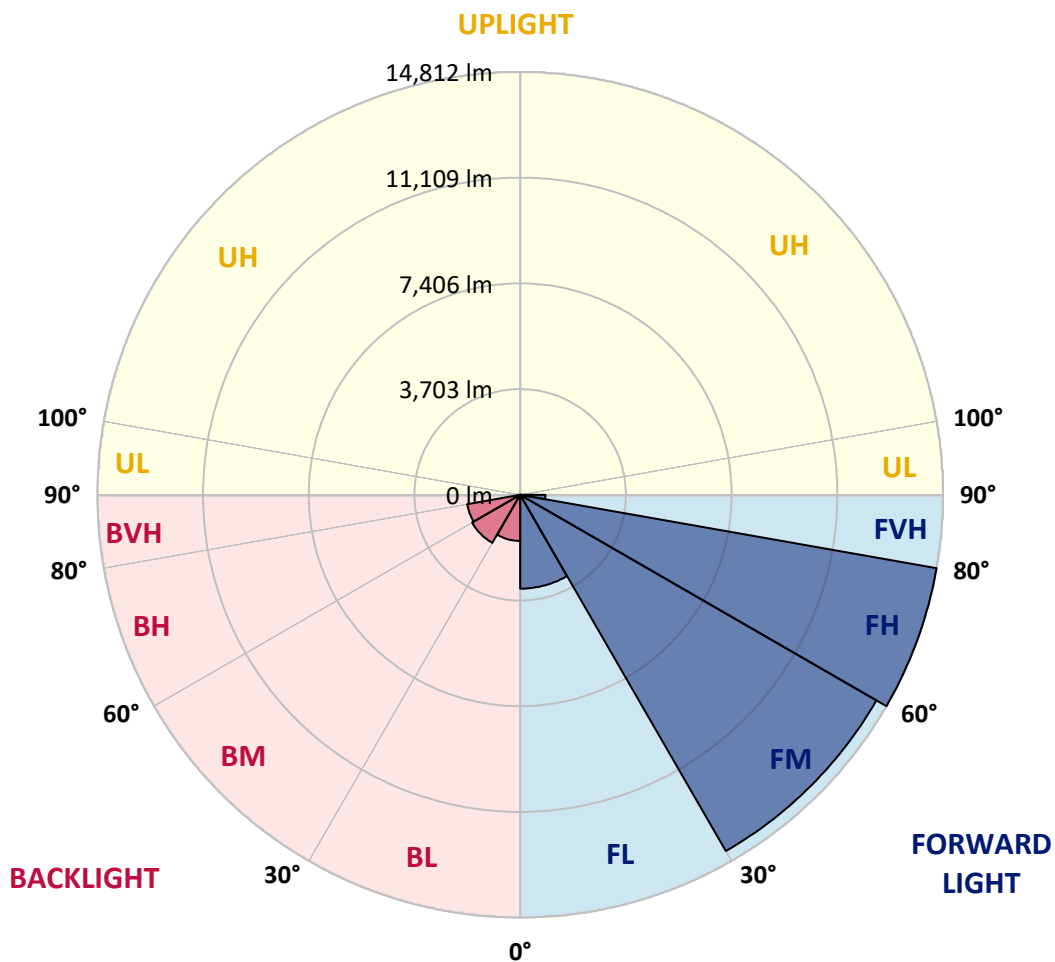
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3287.1	8.4			
FM	(30°-60°)	14409.6	37.0			
FH	(60°-80°)	14812.1	38.0			G5
FVH	(80°-90°)	882.7	2.3			G5
BL	(0°-30°)	1615.8	4.2	B3/2500		
BM	(30°-60°)	1945.8	5.0	B2/2500		
BH	(60°-80°)	1882.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	94.1	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°	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0
2.5°	10123.1	10145.6	10136.2	10130.6	10147.5	10121.2	10066.6	10049.7	10023.4	9961.3	9856.0
5°	9743.2	9810.9	9807.1	9857.9	9942.5	9965.1	9940.6	9944.4	9895.5	9818.4	9643.5
7.5°	9086.9	9115.1	9130.1	9241.1	9395.3	9519.4	9624.7	9658.6	9636.0	9570.2	9344.5
10°	8409.9	8432.4	8468.2	8597.9	8793.5	8964.6	9164.0	9278.7	9327.6	9316.3	9064.3
12.5°	7828.8	7851.3	7898.4	8045.0	8278.2	8488.8	8778.5	8921.4	9038.0	9107.6	8836.8
15°	7307.9	7356.8	7401.9	7571.1	7832.5	8109.0	8436.2	8616.7	8797.3	8953.3	8635.5
17.5°	6901.7	6950.6	6976.9	7131.1	7409.4	7747.9	8131.5	8344.0	8569.7	8825.5	8436.2
20°	6666.6	6689.2	6677.9	6764.4	7014.5	7373.7	7828.8	8075.1	8347.8	8705.1	8236.9
22.5°	6600.8	6602.6	6561.3	6551.9	6713.6	7016.4	7505.3	7804.3	8139.1	8626.1	8065.7
25°	6760.6	6755.0	6642.1	6550.0	6566.9	6743.7	7193.1	7541.0	7964.2	8609.2	7934.1
27.5°	7116.0	7133.0	6965.6	6792.6	6621.5	6615.8	6956.2	7322.9	7821.2	8686.3	7877.7
30°	7614.4	7642.6	7463.9	7243.9	6922.3	6657.2	6864.0	7193.1	7732.9	8846.2	7868.3
32.5°	8159.8	8189.8	8054.4	7823.1	7401.9	6912.9	6928.0	7204.4	7729.1	9069.9	7932.2
35°	8740.8	8774.7	8705.1	8509.5	8041.3	7385.0	7172.5	7386.8	7851.3	9412.2	8103.3
37.5°	9389.6	9442.3	9461.1	9274.9	8774.7	8007.4	7573.0	7732.9	8127.8	9888.0	8417.4
40°	10324.3	10397.6	10392.0	10124.9	9615.3	8848.0	8191.7	8233.1	8558.4	10523.6	8919.5
42.5°	12114.6	12129.6	11661.4	11080.3	10540.5	9731.9	8921.4	8887.5	9152.7	11328.5	9658.6
45°	14391.9	14329.9	13288.0	12165.3	11507.1	10747.4	9871.1	9705.6	9906.8	12310.1	10583.8
47.5°	16281.9	16139.0	14822.6	13273.0	12530.2	11851.3	10986.2	10696.6	10807.6	13423.4	11779.8
50°	16938.2	16831.0	15740.3	14194.5	13498.7	13197.8	12359.0	11949.1	11979.2	14751.1	13180.8
52.5°	16797.2	16782.1	16054.3	14801.9	14405.1	14612.0	14303.5	13748.8	13455.4	16225.5	14692.8
55°	16464.3	16496.3	16233.0	15509.0	15441.3	15977.2	16844.2	16434.2	15522.1	17713.0	16255.6
57.5°	15307.8	15390.5	15969.7	16398.5	17109.3	17906.7	18890.2	18773.6	17746.8	19320.9	18113.6
60°	12332.7	12524.5	14077.9	16225.5	18826.3	21319.9	21760.0	21489.2	20041.1	21316.2	20567.7
62.5°	8641.2	8840.5	10687.2	14047.8	18544.2	25175.1	26890.1	25722.3	23335.9	24255.5	23744.0
65°	4626.2	4722.1	6132.5	9746.9	15655.7	25970.5	34387.9	32610.8	28552.5	27879.3	26461.4
67.5°	2551.9	2604.6	3144.3	4921.4	10027.1	22869.5	39164.5	40507.3	35072.4	30292.1	25966.8
69°	2307.4	2356.3	2709.9	3727.3	6709.8	18909.0	38698.2	42589.0	37930.9	30053.2	24138.9
70°	2256.7	2301.8	2619.6	3435.8	5431.1	15586.1	37135.4	42056.8	38611.7	29197.6	22544.2
72.5°	2031.0	2079.9	2388.3	3086.0	4641.2	7770.5	29415.7	35559.5	35055.5	25316.1	17099.9
75°	1893.7	1938.9	2461.7	3022.1	4443.8	4917.7	19392.3	26207.5	25769.3	17709.2	9220.4
77.5°	810.5	806.8	1141.5	2557.6	4509.6	4761.6	10420.2	16372.2	14937.3	7569.3	2647.8
80°	541.6	532.2	541.6	752.2	4135.4	4787.9	5459.3	8310.2	6277.3	1929.5	1305.1
82.5°	466.4	458.9	475.8	458.9	1453.7	5464.9	4641.2	4419.3	2984.4	1096.4	646.9
85°	314.1	300.9	410.0	411.8	686.4	4855.6	5228.0	3732.9	2414.6	650.7	319.7
87.5°	150.4	146.7	238.8	291.5	402.4	1972.7	5865.5	3825.1	2435.3	332.9	152.3
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°	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0	9920.0
2.5°	9824.0	9746.9	9671.7	9581.5	9487.4	9382.1	9329.5	9276.8	9263.6	9248.6	9195.9
5°	9553.2	9444.2	9256.1	9049.3	8831.1	8618.6	8456.9	8355.3	8278.2	8238.7	8169.2
7.5°	9203.5	9043.6	8714.5	8357.2	7990.5	7655.8	7366.2	7183.7	7010.7	6929.9	6837.7
10°	8870.6	8631.8	8120.3	7593.7	7067.1	6561.3	6085.5	5748.9	5449.9	5282.5	5164.0
12.5°	8584.8	8257.5	7548.6	6835.8	6113.7	5393.4	4680.7	4120.3	3652.0	3405.7	3279.7
15°	8306.4	7911.5	7005.1	6100.5	5173.4	4193.6	3257.1	2621.5	2234.1	2079.9	2027.2
17.5°	8054.4	7548.6	6459.7	5359.6	4203.1	3018.3	2189.0	1839.2	1690.6	1639.8	1622.9
20°	7781.8	7181.9	5893.7	4584.8	3191.3	2110.0	1709.4	1555.2	1495.0	1480.0	1472.5
22.5°	7518.5	6820.8	5352.1	3755.5	2292.4	1628.6	1468.7	1404.8	1395.4	1408.5	1408.5
25°	7294.7	6497.3	4767.2	2888.5	1683.1	1370.9	1314.5	1299.5	1335.2	1384.1	1393.5
27.5°	7127.3	6232.2	4144.8	2132.6	1340.8	1192.3	1190.4	1214.8	1303.2	1397.3	1416.1
30°	7012.6	5980.2	3479.0	1538.3	1124.6	1049.4	1079.4	1132.1	1261.9	1395.4	1431.1
32.5°	6954.3	5794.0	2785.1	1190.4	962.8	921.5	972.2	1036.2	1164.1	1288.2	1335.2
35°	6999.4	5656.7	2130.7	992.9	850.0	818.0	870.7	932.8	1008.0	1060.6	1096.4
37.5°	7168.7	5602.2	1607.9	889.5	772.9	742.8	784.2	819.9	850.0	865.1	882.0
40°	7533.5	5660.5	1288.2	836.8	729.7	692.0	709.0	722.1	740.9	756.0	763.5
42.5°	8071.4	5835.4	1154.7	816.2	707.1	652.6	648.8	654.4	678.9	707.1	712.7
45°	8823.6	6143.8	1145.3	829.3	695.8	620.6	603.7	611.2	648.8	692.0	699.6
47.5°	9784.6	6613.9	1220.5	868.8	705.2	603.7	575.5	584.9	631.9	690.2	699.6
50°	10948.6	7270.2	1346.5	927.1	746.6	607.4	566.0	571.7	620.6	684.5	693.9
52.5°	12323.3	8201.1	1483.8	983.5	789.8	631.9	573.6	560.4	605.5	662.0	673.2
55°	13852.2	9395.3	1624.8	1034.3	812.4	662.0	588.6	545.4	577.3	624.3	633.7
57.5°	15729.0	11065.2	1869.3	1083.2	827.4	682.6	603.7	530.3	541.6	575.5	583.0
60°	18269.6	13427.2	2299.9	1164.1	861.3	690.2	601.8	517.2	505.9	524.7	528.4
62.5°	21314.3	15992.3	2659.1	1265.6	917.7	695.8	590.5	507.8	475.8	475.8	479.5
65°	23121.5	16678.7	2459.8	1350.2	964.7	690.2	577.3	498.3	453.2	432.5	434.4
67.5°	21588.8	14668.4	2108.1	1367.2	962.8	663.8	556.6	481.4	430.6	398.7	396.8
69°	19668.8	12656.2	1950.1	1322.0	917.7	630.0	530.3	462.6	413.7	379.9	378.0
70°	18121.1	11428.2	1846.7	1273.1	868.8	605.5	509.6	445.7	400.6	368.6	364.8
72.5°	13175.2	7488.4	1577.8	1094.5	716.5	507.8	440.1	391.2	357.3	338.5	334.7
75°	6583.8	3571.2	1280.7	887.6	549.1	406.2	361.1	327.2	310.3	306.5	304.7
77.5°	2162.6	1636.1	915.8	662.0	408.1	317.8	291.5	267.0	263.3	274.6	270.8
80°	1188.5	951.6	581.1	438.2	278.3	233.2	229.4	216.3	221.9	240.7	237.0
82.5°	605.5	494.6	359.2	263.3	188.1	167.4	182.4	174.9	182.4	199.3	197.5
85°	299.0	270.8	227.5	159.8	124.1	107.2	129.8	135.4	139.2	152.3	152.3
87.5°	173.0	159.8	120.4	75.2	62.1	56.4	75.2	73.3	86.5	94.0	92.1
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)