

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: P319182

Luminaire Tested: **GLEON-SA8D-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45394 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

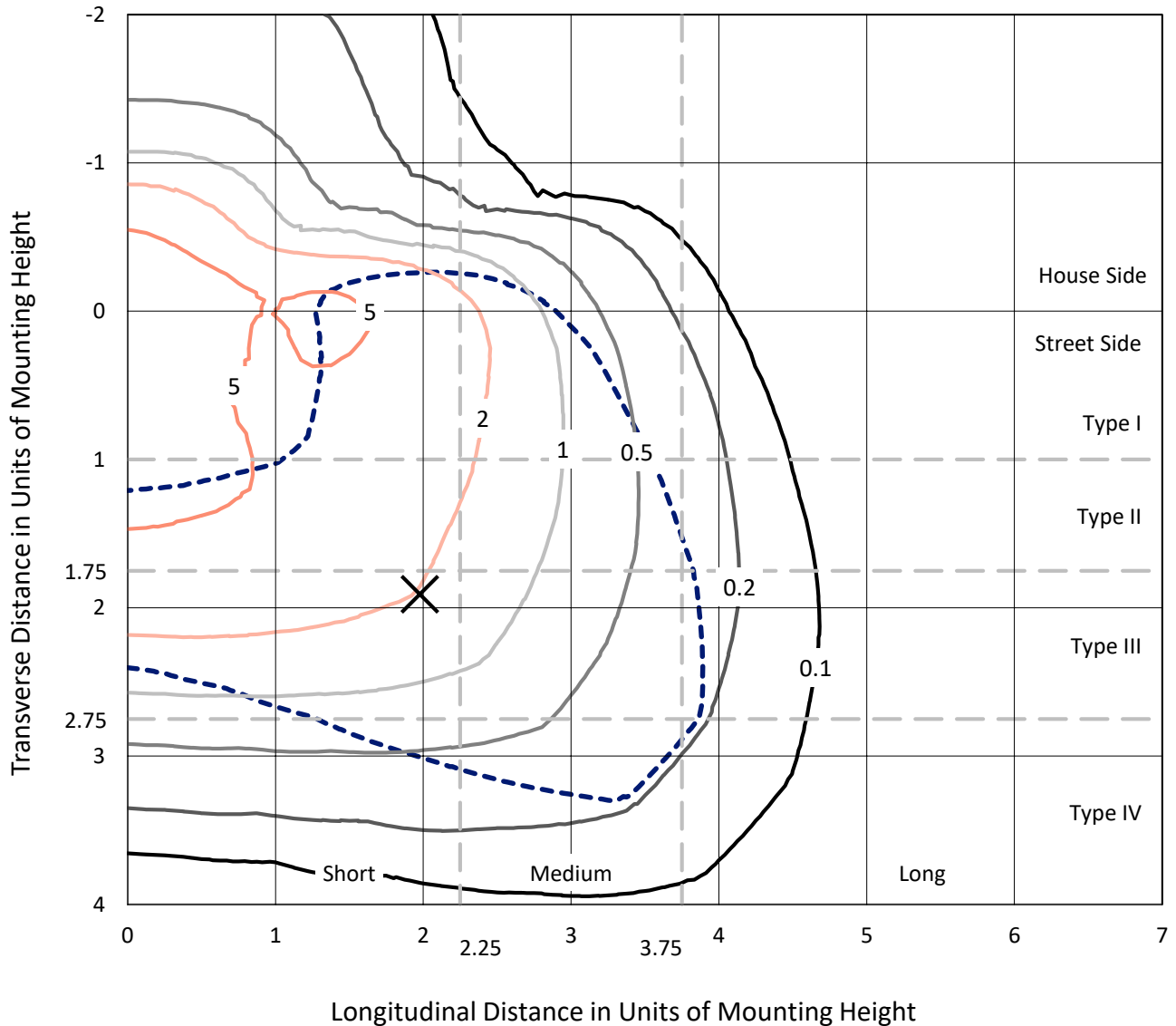
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

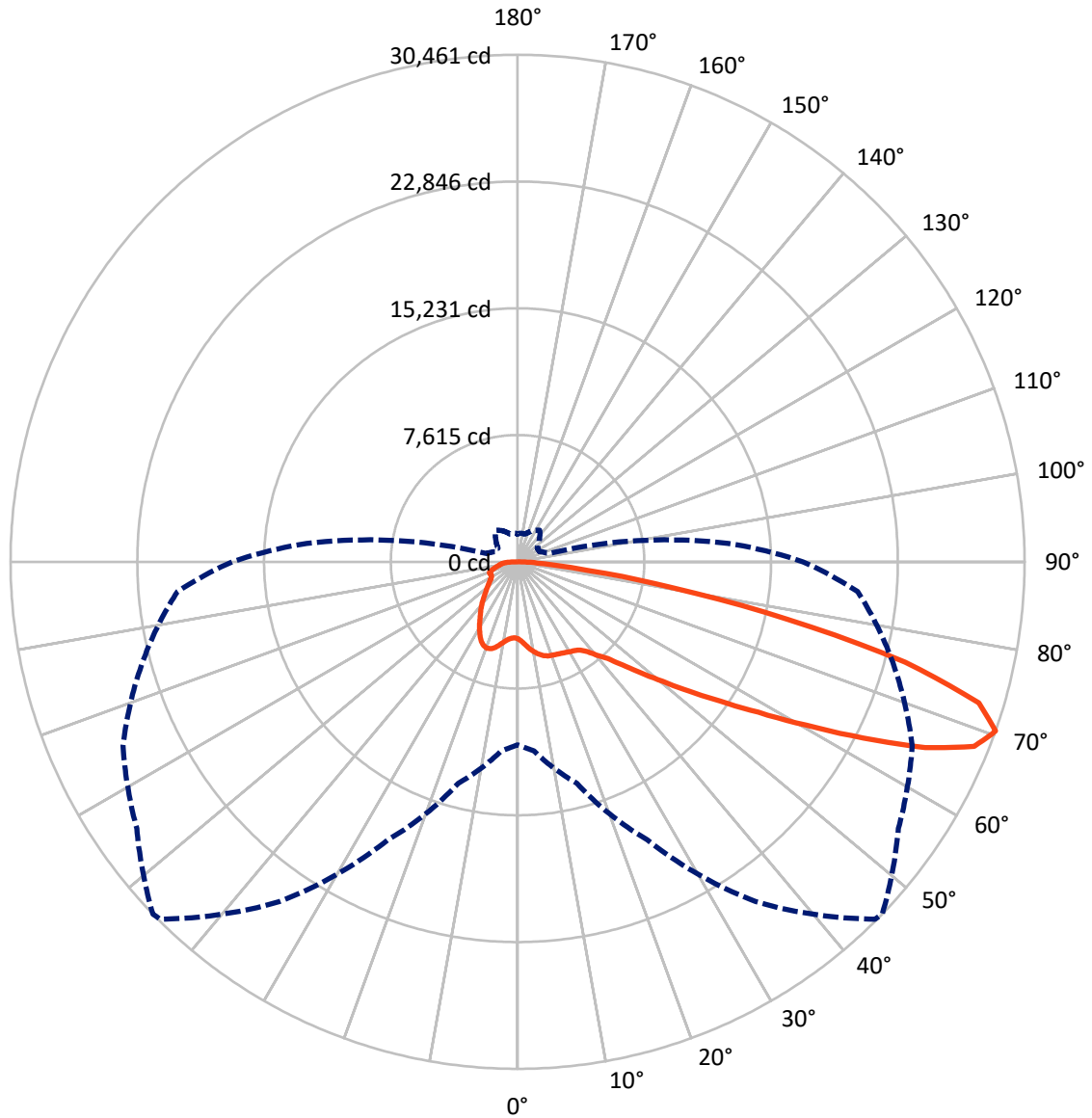
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10404.2	0.0	10404.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	34989.8	0.0	34989.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	45394.0	0.0	45394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.5	1.0
10°-20°	1570.8	3.5
20°-30°	2619.1	5.8
30°-40°	3716.6	8.2
40°-50°	5466.9	12.0
50°-60°	9258.3	20.4
60°-70°	13141.9	29.0
70°-80°	7983.8	17.6
80°-90°	1165.1	2.6
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°	45394.0	100.0
0°-180°	45394.0	100.0

**Coefficient of Utilization**

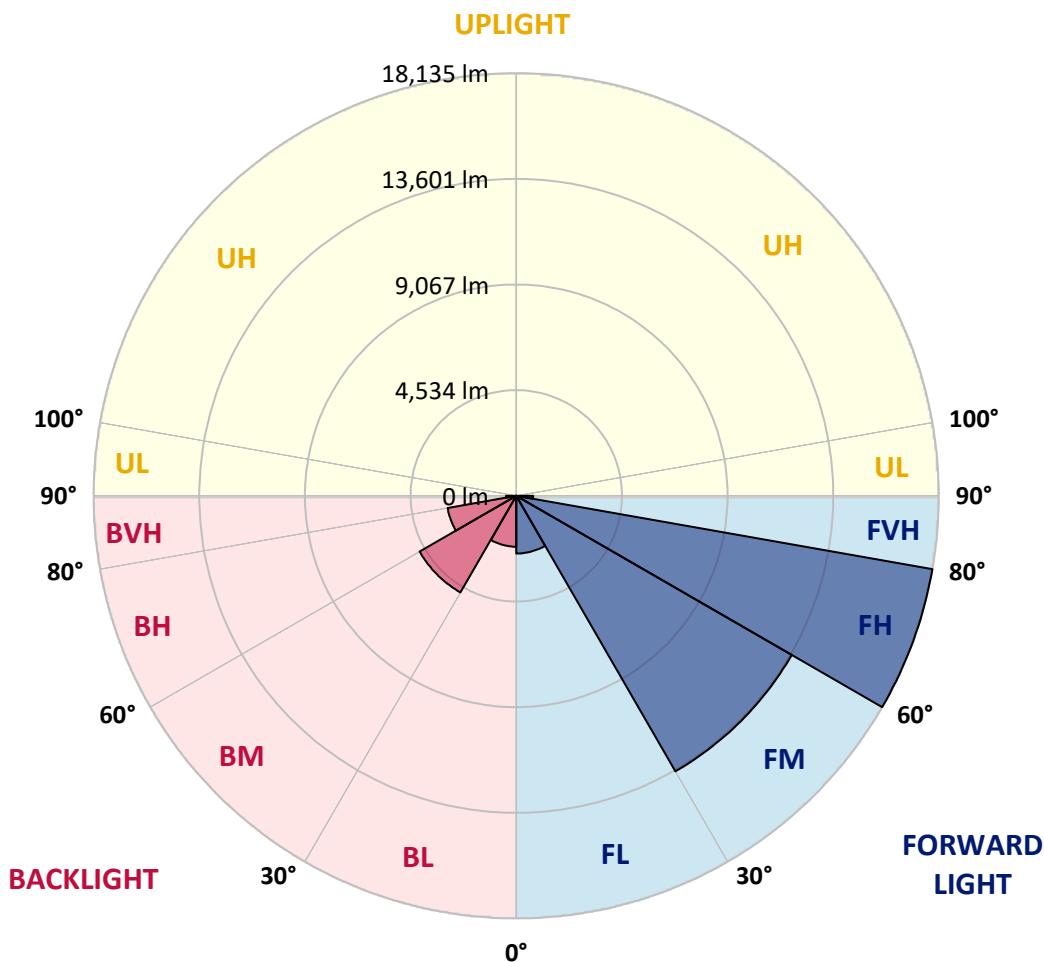


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2476.9	5.5			
FM (30°-60°)	13652.5	30.1			
FH (60°-80°)	18134.6	39.9			G5
FVH (80°-90°)	725.8	1.6			G4/750
BL (0°-30°)	2184.4	4.8	B3/2500		
BM (30°-60°)	4789.3	10.6	B3/5000		
BH (60°-80°)	2991.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	439.4	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8
2.5°	4856.2	4859.3	4865.6	4850.0	4806.5	4794.1	4789.4	4744.4	4714.9	4671.4	4634.1
5°	5244.6	5247.7	5238.4	5194.9	5098.6	5027.1	5020.9	4918.4	4825.2	4725.7	4651.2
7.5°	5650.1	5654.7	5625.2	5542.9	5407.7	5283.4	5275.7	5135.9	4994.5	4843.8	4732.0
10°	6008.9	5990.3	5942.1	5827.2	5667.2	5514.9	5508.7	5362.7	5199.6	5017.8	4868.7
12.5°	6248.2	6232.6	6170.5	6030.7	5855.1	5715.3	5702.9	5567.7	5409.3	5210.4	5031.8
15°	6380.2	6391.1	6307.2	6148.7	5977.9	5859.8	5848.9	5752.6	5611.2	5410.8	5205.8
17.5°	6397.3	6406.6	6325.8	6168.9	6029.1	5948.3	5943.7	5880.0	5777.5	5584.8	5370.4
20°	6297.9	6304.1	6237.3	6108.3	6016.7	5991.8	5990.3	5962.3	5886.2	5715.3	5507.1
22.5°	6153.4	6158.1	6109.9	6016.7	5985.6	6024.5	6035.3	6024.5	5970.1	5810.1	5614.3
25°	6117.7	6114.6	6064.9	5970.1	5996.5	6078.8	6092.8	6097.5	6060.2	5920.4	5751.0
27.5°	6290.1	6279.2	6184.5	6032.2	6049.3	6148.7	6167.4	6212.4	6189.1	6066.4	5906.4
30°	6788.8	6770.1	6576.0	6268.4	6184.5	6235.7	6259.0	6330.5	6335.2	6232.6	6113.0
32.5°	7630.8	7607.5	7259.5	6709.6	6412.8	6324.3	6346.0	6453.2	6510.7	6431.5	6302.5
35°	8694.9	8668.5	8211.8	7459.9	6795.0	6493.6	6509.2	6594.6	6709.6	6597.7	6426.8
37.5°	9804.1	9740.4	9300.8	8342.3	7402.4	6855.6	6855.6	6866.5	6920.8	6687.8	6572.8
40°	10907.1	10843.4	10445.7	9380.0	8188.5	7425.7	7390.0	7149.2	7105.7	6905.3	6866.5
42.5°	11932.4	11913.8	11679.2	10552.9	9111.3	7986.5	7936.8	7528.2	7537.6	7413.3	7414.8
45°	13023.0	13023.0	12831.9	11736.7	10186.3	8887.6	8837.8	8236.6	8329.9	8272.4	8410.6
47.5°	13913.1	13941.1	13914.7	12970.1	11436.8	10032.5	9942.4	9218.5	9479.4	9676.7	10079.1
50°	14821.9	14865.4	14870.1	14323.2	12948.4	11393.3	11290.8	10521.8	11104.4	11669.9	12460.6
52.5°	16140.8	16238.7	15848.8	15673.2	14800.2	13009.0	12908.0	12198.1	13170.5	13964.4	15326.8
55°	17363.4	17278.0	16999.9	17108.7	16782.4	14848.3	14772.2	14149.2	15472.8	16504.4	18273.8
57.5°	18025.2	18019.0	18298.6	18764.7	18920.0	17116.4	17052.7	16446.9	18068.7	18843.9	21040.6
60°	18802.0	18812.8	19505.7	20563.6	21203.7	19940.7	19912.7	19452.9	20590.0	21028.1	23210.8
62.5°	18910.7	19106.5	20299.5	22120.2	23341.3	23240.3	23302.5	22160.6	22845.7	22771.2	24831.1
65°	17660.2	17918.0	20077.4	22591.0	25466.5	26849.1	26906.6	24883.9	24624.5	24261.0	25410.5
67.5°	15096.9	15479.0	17824.8	21567.2	26167.1	29516.4	29597.2	26995.1	26100.3	24765.8	24015.5
70°	10986.3	11410.4	13771.7	18419.8	24918.1	30369.3	30461.0	27928.8	26156.2	23328.9	20501.5
72.5°	6636.5	6969.0	8915.5	13560.5	21031.2	28815.8	28978.9	26745.0	23880.4	19760.5	15138.8
75°	2914.4	3131.8	4311.0	7814.1	15056.5	23841.5	24045.0	22892.3	19403.2	14360.5	8948.1
77.5°	1241.2	1303.4	1767.9	3394.4	8511.6	16291.5	16571.2	16726.5	13164.3	7814.1	3781.2
80°	773.6	798.5	1000.5	1536.4	3983.2	9150.1	9451.5	9841.4	6537.1	2872.4	1320.5
82.5°	470.7	498.7	664.9	929.0	2073.9	4147.8	4292.3	4567.3	2536.9	1241.2	683.5
85°	282.7	302.9	407.0	587.2	1180.7	1631.2	1629.6	1802.1	1194.6	798.5	360.4
87.5°	135.2	150.7	217.5	304.5	595.0	612.1	573.2	649.4	725.5	523.5	181.8
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°	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8	4624.8
2.5°	4621.7	4615.4	4595.2	4579.7	4576.6	4567.3	4559.5	4564.2	4570.4	4571.9	4571.9
5°	4620.1	4603.0	4576.6	4565.7	4579.7	4598.4	4621.7	4652.7	4671.4	4685.3	4694.7
7.5°	4694.7	4662.0	4632.5	4626.3	4654.3	4704.0	4756.8	4822.1	4867.1	4898.2	4904.4
10°	4818.9	4778.6	4749.0	4755.3	4805.0	4876.4	4951.0	5034.9	5103.2	5145.2	5148.3
12.5°	4961.9	4923.0	4895.1	4921.5	5003.8	5090.8	5168.5	5241.5	5303.6	5345.6	5345.6
15°	5126.5	5098.6	5066.0	5126.5	5238.4	5316.1	5348.7	5384.4	5418.6	5449.7	5443.5
17.5°	5285.0	5258.6	5241.5	5313.0	5429.5	5465.2	5443.5	5417.0	5417.0	5434.1	5437.2
20°	5421.7	5398.4	5409.3	5479.2	5539.8	5502.5	5421.7	5337.8	5303.6	5313.0	5322.3
22.5°	5541.3	5530.4	5563.1	5595.7	5552.2	5421.7	5272.6	5159.2	5117.2	5114.1	5117.2
25°	5681.1	5679.6	5720.0	5660.9	5468.3	5227.5	5027.1	4916.8	4893.5	4912.2	4943.2
27.5°	5855.1	5872.2	5892.4	5676.5	5297.4	4933.9	4730.4	4654.3	4677.6	4722.6	4752.1
30°	6077.3	6123.9	6080.4	5637.6	5052.0	4598.4	4404.2	4382.4	4446.1	4509.8	4540.9
32.5°	6293.2	6366.2	6260.6	5536.7	4735.1	4242.6	4091.9	4085.7	4163.4	4225.5	4269.0
35°	6467.2	6611.7	6395.7	5336.3	4368.4	3914.8	3804.5	3762.6	3790.5	3863.5	3913.3
37.5°	6694.0	6934.8	6489.0	5030.2	3970.7	3644.5	3515.6	3419.2	3394.4	3423.9	3448.8
40°	7108.8	7427.3	6532.5	4603.0	3582.4	3374.2	3243.7	3102.3	3004.5	2933.0	2934.6
42.5°	7786.1	8068.9	6504.5	4084.1	3223.5	3110.1	2962.5	2799.4	2640.9	2479.4	2467.0
45°	8886.0	9022.7	6420.6	3534.2	2908.1	2833.6	2695.3	2532.2	2320.9	2137.6	2120.5
47.5°	10646.1	10343.2	6290.1	3054.2	2630.1	2599.0	2471.6	2283.6	2059.9	1912.4	1899.9
50°	13046.3	12249.3	6226.4	2672.0	2384.6	2393.9	2289.9	2091.0	1879.7	1771.0	1758.6
52.5°	15917.1	14469.3	6349.1	2376.9	2187.3	2219.9	2142.3	1955.9	1778.8	1693.3	1680.9
55°	18895.2	16768.4	6481.2	2162.5	2000.9	2064.6	2038.2	1884.4	1724.4	1645.2	1634.3
57.5°	21444.5	18485.1	6217.1	1988.5	1834.7	1934.1	1957.4	1839.3	1696.4	1625.0	1612.5
60°	23049.2	19176.4	5524.2	1825.4	1702.6	1830.0	1910.8	1826.9	1707.3	1701.1	1691.8
62.5°	23810.4	19115.8	4484.9	1696.4	1620.3	1785.0	1945.0	1896.8	1831.6	1887.5	1892.2
65°	23468.7	18202.3	3340.0	1611.0	1561.3	1802.1	2047.5	2028.9	1867.3	1923.2	1931.0
67.5°	21219.2	16022.8	2473.2	1536.4	1496.0	1850.2	2233.9	2072.4	1797.4	1837.8	1812.9
70°	17150.6	12702.9	1907.7	1452.5	1429.2	1844.0	2317.8	2046.0	1721.3	1730.6	1663.8
72.5°	11826.8	8662.3	1551.9	1374.8	1332.9	1680.9	2258.8	1980.7	1657.6	1586.1	1497.6
75°	6431.5	4649.6	1318.9	1294.1	1163.6	1475.8	2150.0	1934.1	1600.1	1505.3	1455.6
77.5°	2530.6	1929.4	1144.9	1183.8	1017.5	1303.4	2028.9	1845.6	1520.9	1396.6	1371.7
80°	1033.1	984.9	949.2	1023.8	874.6	1140.3	1882.8	1741.5	1426.1	1295.6	1245.9
82.5°	585.7	612.1	737.9	807.8	709.9	1050.2	1812.9	1657.6	1312.7	1160.5	1101.4
85°	299.8	358.9	514.2	579.5	522.0	893.3	1670.0	1451.0	1053.3	888.6	893.3
87.5°	144.5	200.4	324.7	363.5	338.7	646.3	1247.5	1051.7	820.2	649.4	629.2
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)