

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: P383381

Luminaire Tested: **GLEON-SA6D-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383381  
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-SA6D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 42927.6 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

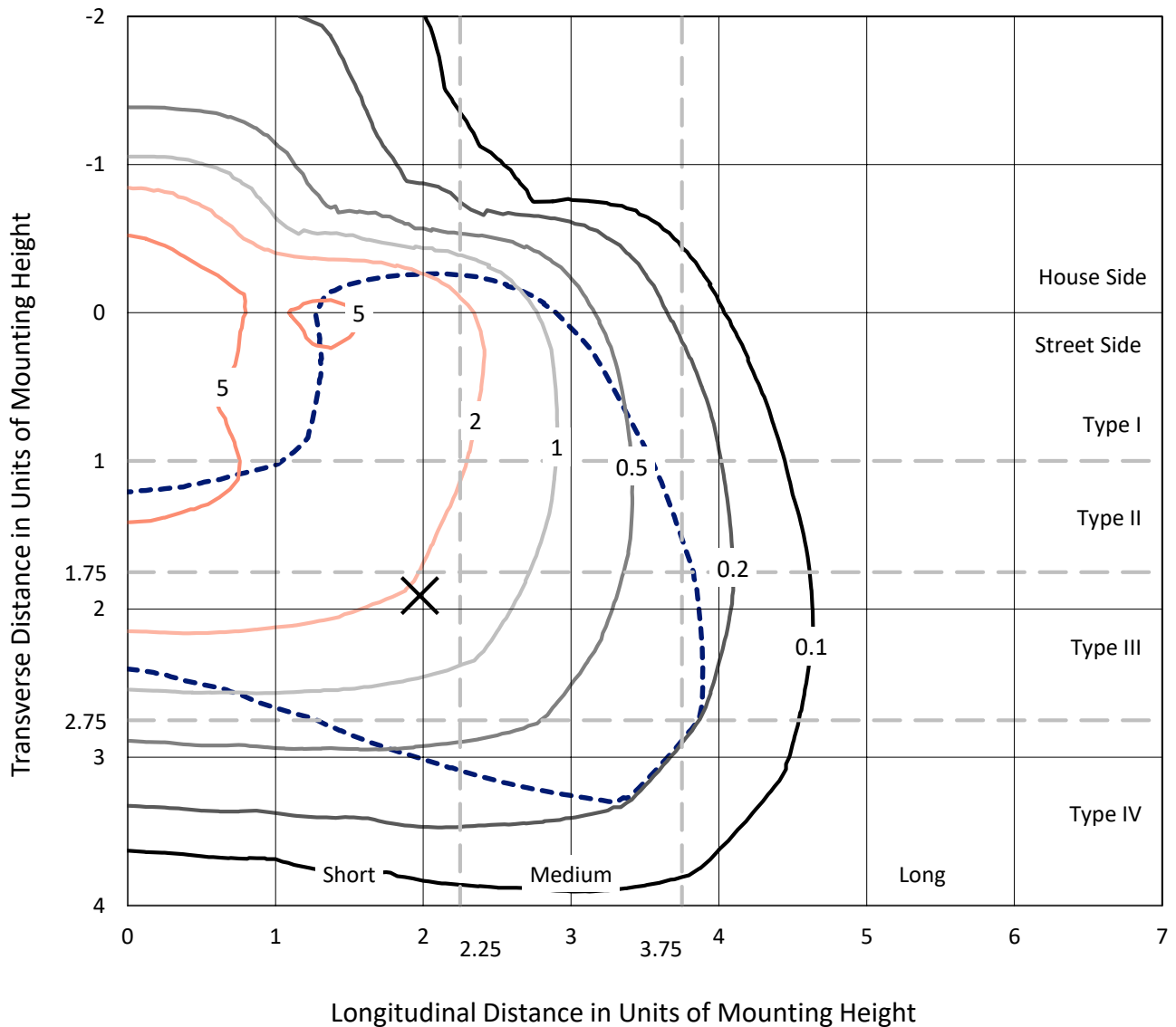
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

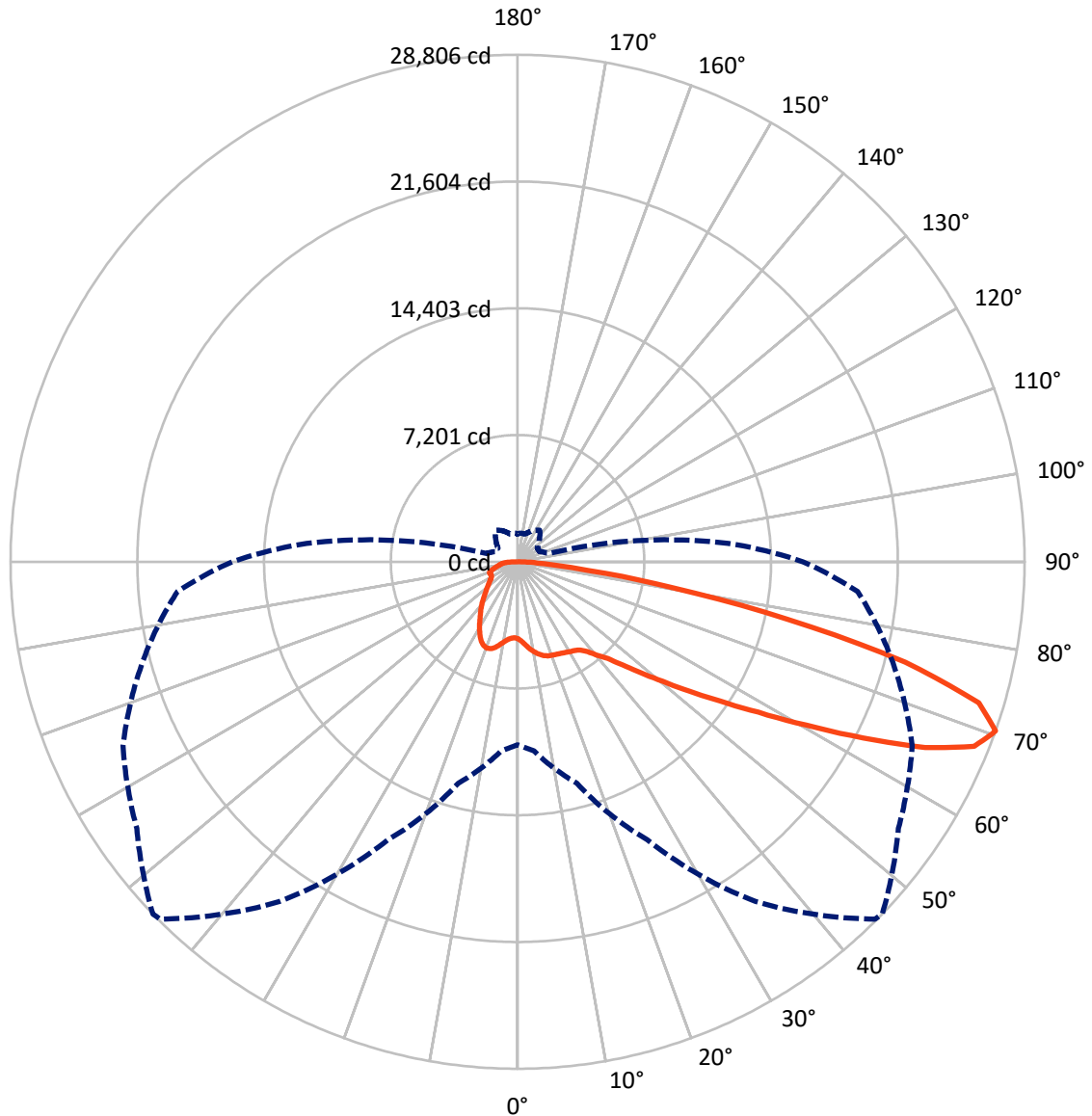
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	9838.9	0.0	9838.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	33088.7	0.0	33088.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	42927.6	0.0	42927.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.8	1.0
10°-20°	1485.4	3.5
20°-30°	2476.8	5.8
30°-40°	3514.7	8.2
40°-50°	5169.9	12.0
50°-60°	8755.2	20.4
60°-70°	12427.9	29.0
70°-80°	7550.0	17.6
80°-90°	1101.8	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°	42927.6	100.0
0°-180°	42927.6	100.0

**Coefficient of Utilization**

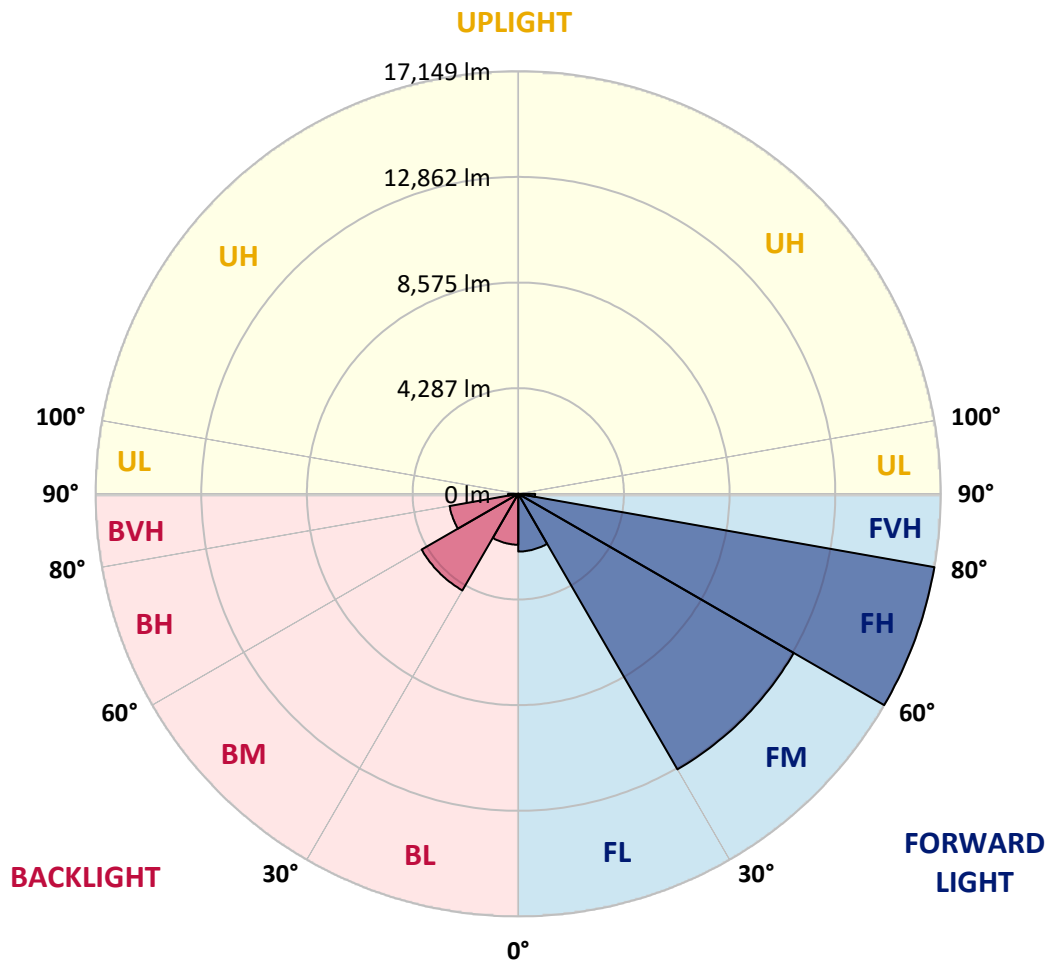


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.3	5.5			
FM (30°-60°)	12910.7	30.1			
FH (60°-80°)	17149.3	39.9			G5
FVH (80°-90°)	686.4	1.6			G4/750
BL (0°-30°)	2065.7	4.8	B3/2500		
BM (30°-60°)	4529.1	10.6	B3/5000		
BH (60°-80°)	2828.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	415.5	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°	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5
2.5°	4592.3	4595.3	4601.2	4586.5	4545.4	4533.7	4529.2	4486.6	4458.7	4417.6	4382.3
5°	4959.7	4962.5	4953.8	4912.6	4821.6	4754.0	4748.1	4651.1	4563.0	4469.0	4398.5
7.5°	5343.1	5347.5	5319.6	5241.7	5113.9	4996.4	4989.0	4856.8	4723.1	4580.6	4474.9
10°	5682.4	5664.8	5619.3	5510.6	5359.2	5215.3	5209.4	5071.3	4917.1	4745.1	4604.1
12.5°	5908.7	5894.0	5835.2	5703.0	5537.0	5404.7	5393.0	5265.2	5115.4	4927.3	4758.3
15°	6033.5	6043.9	5964.5	5814.6	5653.1	5541.4	5531.2	5440.1	5306.4	5116.8	4922.9
17.5°	6049.7	6058.5	5982.1	5833.7	5701.5	5625.2	5620.8	5560.5	5463.5	5281.4	5078.6
20°	5955.7	5961.5	5898.4	5776.4	5689.8	5666.3	5664.8	5638.4	5566.4	5404.7	5207.9
22.5°	5819.1	5823.5	5777.9	5689.8	5660.4	5697.2	5707.4	5697.2	5645.7	5494.4	5309.3
25°	5785.3	5782.3	5735.4	5645.7	5670.7	5748.6	5761.8	5766.2	5730.9	5598.7	5438.6
27.5°	5948.3	5938.1	5848.4	5704.5	5720.6	5814.6	5832.3	5874.9	5852.8	5736.7	5585.5
30°	6419.9	6402.2	6218.6	5927.8	5848.4	5896.9	5919.0	5986.5	5991.0	5894.0	5780.9
32.5°	7216.1	7194.2	6865.0	6345.0	6064.4	5980.6	6001.2	6102.6	6157.0	6082.1	5960.1
35°	8222.5	8197.5	7765.6	7054.6	6425.8	6140.8	6155.5	6236.2	6345.0	6239.2	6077.6
37.5°	9271.4	9211.2	8795.5	7889.0	7000.2	6483.1	6483.1	6493.4	6544.8	6324.5	6215.8
40°	10314.5	10254.3	9878.1	8870.4	7743.6	7022.3	6988.5	6760.7	6719.6	6530.1	6493.4
42.5°	11284.1	11266.4	11044.6	9979.5	8616.3	7552.6	7505.6	7119.2	7128.0	7010.5	7011.9
45°	12315.3	12315.3	12134.7	11099.0	9632.9	8404.7	8357.7	7789.1	7877.3	7822.9	7953.6
47.5°	13157.2	13183.6	13158.7	12265.4	10815.5	9487.3	9402.2	8717.6	8964.4	9151.0	9531.4
50°	14016.6	14057.7	14062.1	13545.0	12244.8	10774.3	10677.3	9950.1	10501.1	11035.8	11783.6
52.5°	15263.9	15356.4	14987.7	14821.7	13996.0	12302.1	12206.6	11535.3	12455.0	13205.6	14494.0
55°	16420.0	16339.3	16076.3	16179.1	15870.6	14041.6	13969.6	13380.5	14632.1	15607.6	17280.9
57.5°	17045.8	17040.0	17304.4	17745.1	17892.0	16186.4	16126.2	15553.2	17087.0	17820.0	19897.4
60°	17780.4	17790.7	18445.9	19446.3	20051.6	18857.2	18830.8	18395.9	19471.3	19885.6	21949.7
62.5°	17883.2	18068.3	19196.6	20918.4	22073.1	21977.5	22036.3	20956.6	21604.5	21533.9	23481.9
65°	16700.6	16944.5	18986.5	21363.5	24082.7	25390.3	25444.7	23531.9	23286.5	22942.8	24029.9
67.5°	14276.6	14638.0	16856.4	20395.4	24745.4	27912.7	27989.1	25528.4	24682.2	23420.2	22710.7
70°	10389.4	10790.5	13023.5	17419.0	23564.2	28719.2	28805.9	26411.3	24735.1	22061.3	19387.6
72.5°	6275.9	6590.3	8431.1	12823.7	19888.5	27250.2	27404.4	25291.9	22582.9	18686.8	14316.3
75°	2756.0	2961.7	4076.7	7389.5	14238.4	22546.2	22738.6	21648.5	18349.0	13580.3	8462.0
77.5°	1173.8	1232.5	1671.8	3209.9	8049.1	15406.3	15670.8	15817.7	12449.1	7389.5	3575.7
80°	731.6	755.1	946.1	1452.9	3766.7	8653.0	8937.9	9306.7	6181.9	2716.4	1248.7
82.5°	445.1	471.5	628.8	878.5	1961.3	3922.5	4059.1	4319.1	2399.0	1173.8	646.4
85°	267.4	286.5	384.9	555.3	1116.6	1542.5	1541.1	1704.2	1129.7	755.1	340.9
87.5°	127.8	142.5	205.7	287.9	562.7	578.9	542.1	614.1	686.1	495.1	171.9
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°	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5	4373.5
2.5°	4370.5	4364.7	4345.6	4330.9	4328.0	4319.1	4311.8	4316.1	4322.1	4323.5	4323.5
5°	4369.1	4352.9	4328.0	4317.6	4330.9	4348.5	4370.5	4399.9	4417.6	4430.8	4439.6
7.5°	4439.6	4408.7	4380.8	4374.9	4401.4	4448.4	4498.4	4560.0	4602.7	4632.0	4637.9
10°	4557.1	4518.9	4491.0	4496.9	4543.9	4611.4	4682.0	4761.3	4826.0	4865.7	4868.5
12.5°	4692.3	4655.5	4629.1	4654.1	4732.0	4814.2	4887.6	4956.7	5015.5	5055.1	5055.1
15°	4848.0	4821.6	4790.7	4848.0	4953.8	5027.2	5058.1	5091.8	5124.2	5153.6	5147.7
17.5°	4997.8	4972.9	4956.7	5024.3	5134.5	5168.2	5147.7	5122.7	5122.7	5138.9	5141.8
20°	5127.1	5105.1	5115.4	5181.5	5238.7	5203.5	5127.1	5047.8	5015.5	5024.3	5033.1
22.5°	5240.2	5230.0	5260.8	5291.7	5250.5	5127.1	4986.1	4878.9	4839.2	4836.2	4839.2
25°	5372.4	5371.0	5409.2	5353.3	5171.2	4943.4	4754.0	4649.6	4627.6	4645.3	4674.6
27.5°	5537.0	5553.1	5572.2	5368.0	5009.6	4665.8	4473.4	4401.4	4423.5	4466.0	4494.0
30°	5747.1	5791.2	5750.0	5331.3	4777.4	4348.5	4164.9	4144.3	4204.5	4264.8	4294.2
32.5°	5951.3	6020.3	5920.5	5235.9	4477.8	4012.1	3869.6	3863.7	3937.2	3996.0	4037.0
35°	6115.8	6252.5	6048.3	5046.3	4131.0	3702.1	3597.8	3558.1	3584.6	3653.6	3700.7
37.5°	6330.3	6558.0	6136.4	4756.9	3755.0	3446.4	3324.5	3233.5	3209.9	3237.9	3261.3
40°	6722.5	7023.7	6177.6	4352.9	3387.8	3190.8	3067.5	2933.8	2841.2	2773.7	2775.1
42.5°	7363.0	7630.5	6151.1	3862.2	3048.4	2941.1	2801.5	2647.3	2497.5	2344.7	2332.9
45°	8403.2	8532.5	6071.7	3342.2	2750.1	2679.6	2548.9	2394.6	2194.8	2021.5	2005.3
47.5°	10067.7	9781.2	5948.3	2888.3	2487.1	2457.8	2337.3	2159.6	1948.1	1808.4	1796.7
50°	12337.4	11583.8	5888.1	2526.8	2255.1	2263.8	2165.5	1977.4	1777.6	1674.7	1663.0
52.5°	15052.3	13683.1	6004.2	2247.7	2068.5	2099.3	2025.8	1849.6	1682.1	1601.3	1589.6
55°	17868.6	15857.4	6129.0	2044.9	1892.2	1952.4	1927.5	1782.1	1630.7	1555.8	1545.4
57.5°	20279.3	17480.7	5879.3	1880.4	1735.0	1829.0	1851.1	1739.4	1604.2	1536.7	1524.9
60°	21796.9	18134.4	5224.1	1726.2	1610.1	1730.6	1807.0	1727.6	1614.6	1608.7	1599.8
62.5°	22516.7	18077.1	4241.2	1604.2	1532.3	1688.0	1839.3	1793.8	1732.0	1784.9	1789.3
65°	22193.6	17213.3	3158.5	1523.5	1476.4	1704.2	1936.2	1918.6	1765.8	1818.8	1826.1
67.5°	20066.3	15152.2	2338.8	1452.9	1414.7	1749.7	2112.6	1959.8	1699.7	1737.9	1714.4
70°	16218.7	12012.8	1804.0	1373.6	1351.6	1743.8	2191.8	1934.8	1627.8	1636.5	1573.4
72.5°	11184.2	8191.7	1467.7	1300.2	1260.5	1589.6	2136.0	1873.1	1567.5	1500.0	1416.2
75°	6082.1	4397.0	1247.2	1223.8	1100.3	1395.6	2033.2	1829.0	1513.2	1423.6	1376.5
77.5°	2393.1	1824.6	1082.7	1119.4	962.3	1232.5	1918.6	1745.3	1438.2	1320.7	1297.2
80°	976.9	931.4	897.6	968.2	827.1	1078.3	1780.6	1646.9	1348.6	1225.3	1178.2
82.5°	553.8	578.9	697.8	764.0	671.4	993.1	1714.4	1567.5	1241.4	1097.5	1041.6
85°	283.6	339.4	486.3	547.9	493.6	844.7	1579.3	1372.2	996.0	840.3	844.7
87.5°	136.7	189.5	307.0	343.7	320.3	611.1	1179.7	994.6	775.7	614.1	595.0
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)