

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: P319184

Luminaire Tested: **GLEON-SA0D-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319184  
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-SA0D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 56062 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

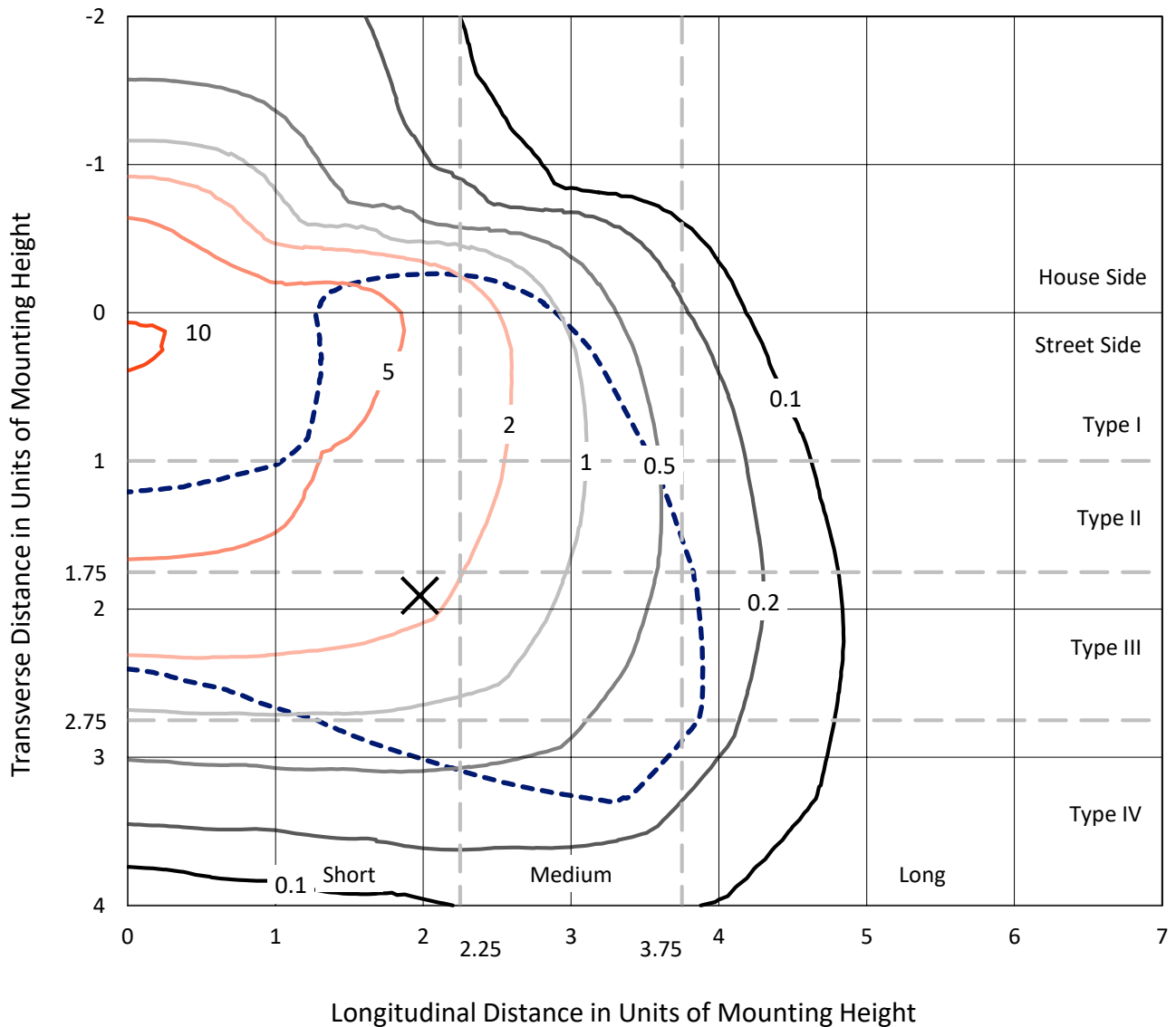
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

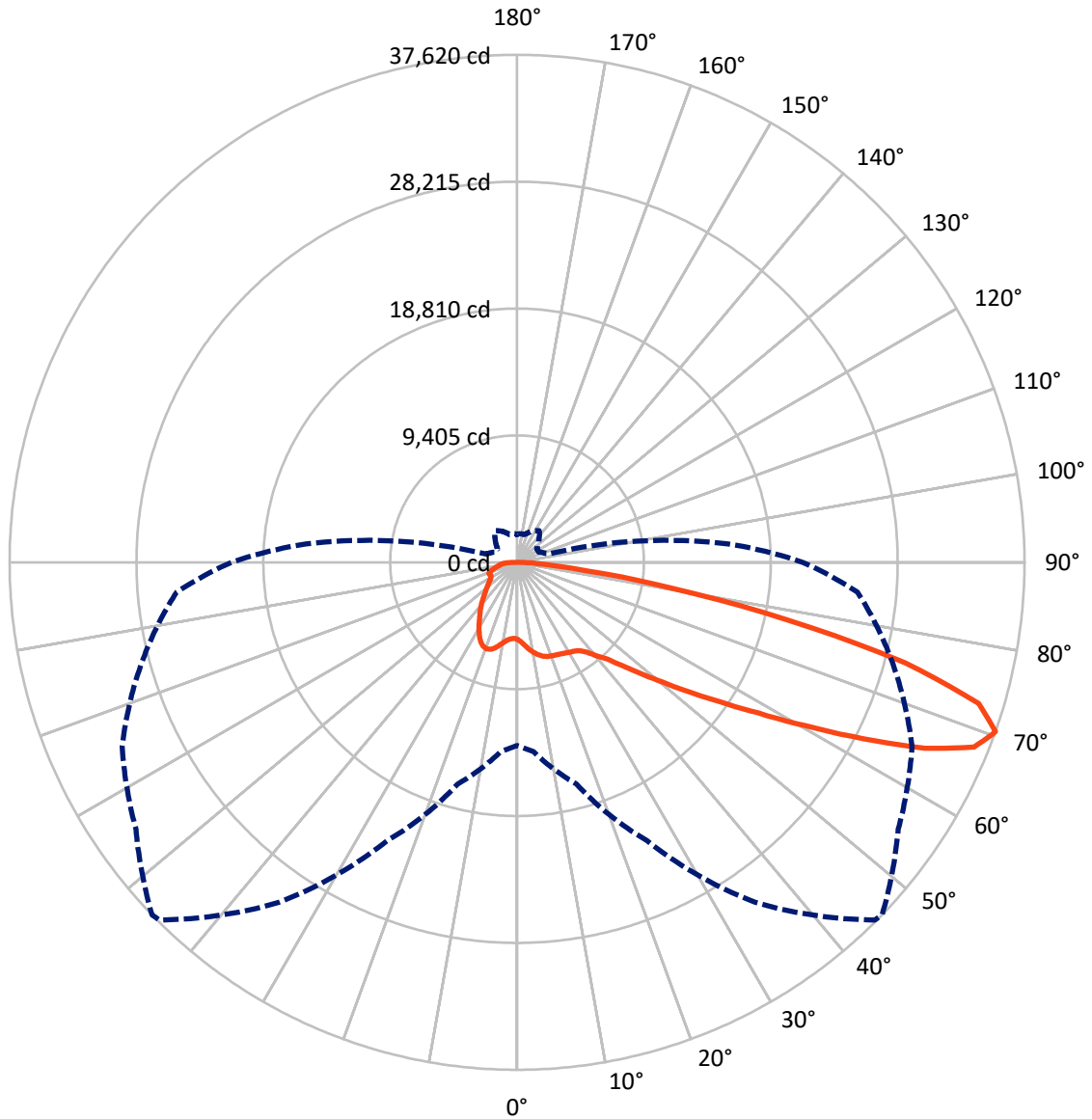
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	12849.2	0.0	12849.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	43212.8	0.0	43212.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	56062.0	0.0	56062.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.3	1.0
10°-20°	1939.9	3.5
20°-30°	3234.6	5.8
30°-40°	4590.1	8.2
40°-50°	6751.7	12.0
50°-60°	11434.0	20.4
60°-70°	16230.4	29.0
70°-80°	9860.1	17.6
80°-90°	1439.0	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°	56062.0	100.0
0°-180°	56062.0	100.0

**Coefficient of Utilization**

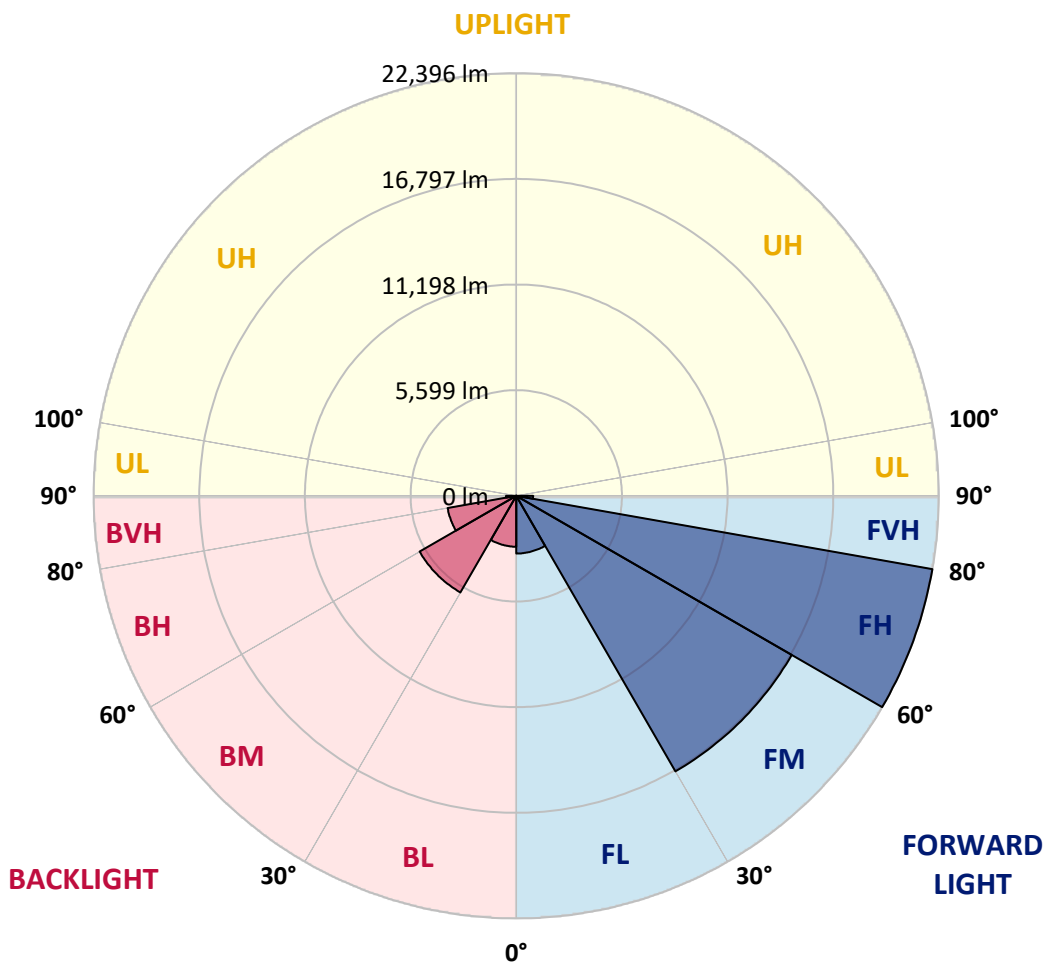


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.0	5.5			
FM (30°-60°)	16860.9	30.1			
FH (60°-80°)	22396.5	39.9			G5
FVH (80°-90°)	896.4	1.6			G5
BL (0°-30°)	2697.7	4.8	B4/5000		
BM (30°-60°)	5914.8	10.6	B4/8500		
BH (60°-80°)	3694.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	542.6	1.0			G4/750
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°	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6
2.5°	5997.5	6001.3	6009.0	5989.8	5936.1	5920.7	5915.0	5859.4	5822.9	5769.2	5723.1
5°	6477.1	6481.0	6469.5	6415.7	6296.8	6208.5	6200.9	6074.2	5959.1	5836.3	5744.2
7.5°	6977.9	6983.6	6947.2	6845.5	6678.6	6525.1	6515.5	6342.8	6168.2	5982.1	5844.0
10°	7421.1	7398.1	7338.6	7196.6	6999.0	6811.0	6803.3	6622.9	6421.5	6197.0	6012.8
12.5°	7716.5	7697.4	7620.6	7447.9	7231.1	7058.5	7043.1	6876.2	6680.5	6434.9	6214.3
15°	7879.6	7893.0	7789.4	7593.8	7382.7	7236.9	7223.5	7104.5	6929.9	6682.4	6429.2
17.5°	7900.7	7912.2	7812.5	7618.7	7446.0	7346.3	7340.5	7261.8	7135.2	6897.3	6632.5
20°	7777.9	7785.6	7703.1	7543.9	7430.7	7400.0	7398.1	7363.5	7269.5	7058.5	6801.4
22.5°	7599.5	7605.3	7545.8	7430.7	7392.3	7440.3	7453.7	7440.3	7373.1	7175.5	6933.8
25°	7555.4	7551.5	7490.1	7373.1	7405.7	7507.4	7524.7	7530.4	7484.4	7311.7	7102.6
27.5°	7768.3	7754.9	7637.9	7449.9	7471.0	7593.8	7616.8	7672.4	7643.6	7492.1	7294.5
30°	8384.2	8361.2	8121.4	7741.5	7637.9	7701.2	7730.0	7818.2	7824.0	7697.4	7549.6
32.5°	9424.1	9395.3	8965.5	8286.4	7919.9	7810.5	7837.4	7969.8	8040.8	7942.9	7783.7
35°	10738.3	10705.7	10141.6	9213.0	8391.9	8019.7	8038.9	8144.4	8286.4	8148.2	7937.2
37.5°	12108.2	12029.5	11486.6	10302.8	9142.0	8466.7	8466.7	8480.1	8547.3	8259.5	8117.5
40°	13470.4	13391.7	12900.5	11584.4	10112.8	9170.8	9126.7	8829.3	8775.6	8528.1	8480.1
42.5°	14736.6	14713.6	14423.9	13032.9	11252.5	9863.4	9802.0	9297.5	9309.0	9155.5	9157.4
45°	16083.5	16083.5	15847.5	14494.9	12580.1	10976.2	10914.8	10172.3	10287.4	10216.5	10387.2
47.5°	17182.8	17217.4	17184.7	16018.2	14124.6	12390.2	12278.9	11384.9	11707.2	11950.9	12447.8
50°	18305.2	18358.9	18364.7	17689.3	15991.4	14070.9	13944.3	12994.6	13714.0	14412.4	15389.0
52.5°	19934.1	20054.9	19573.4	19356.6	18278.3	16066.2	15941.5	15064.7	16265.7	17246.1	18928.7
55°	21444.0	21338.5	20995.0	21129.4	20726.4	18337.8	18243.8	17474.5	19109.1	20383.0	22568.3
57.5°	22261.3	22253.6	22599.0	23174.6	23366.4	21138.9	21060.3	20312.0	22315.0	23272.4	25985.3
60°	23220.6	23234.0	24089.7	25396.3	26186.7	24626.9	24592.4	24024.5	25428.9	25969.9	28665.5
62.5°	23354.9	23596.6	25070.1	27318.7	28826.7	28702.0	28778.7	27368.6	28214.7	28122.6	30666.6
65°	21810.4	22128.9	24795.8	27900.0	31451.3	33158.9	33229.9	30731.9	30411.5	29962.5	31382.3
67.5°	18644.8	19116.8	22013.8	26635.7	32316.6	36453.1	36552.8	33339.2	32234.1	30586.0	29659.4
70°	13568.2	14092.0	17008.2	22748.6	30774.1	37506.4	37619.6	34492.3	32303.2	28811.4	25319.5
72.5°	8196.2	8606.8	11010.7	16747.3	25973.8	35587.8	35789.2	33030.3	29492.5	24404.4	18696.6
75°	3599.3	3867.9	5324.1	9650.5	18594.9	29444.5	29695.8	28272.2	23963.1	17735.4	11051.0
77.5°	1532.9	1609.7	2183.3	4192.1	10511.9	20120.2	20465.5	20657.4	16258.1	9650.5	4669.8
80°	955.5	986.2	1235.6	1897.5	4919.2	11300.5	11672.7	12154.2	8073.4	3547.5	1630.8
82.5°	581.3	615.9	821.2	1147.3	2561.3	5122.6	5301.0	5640.6	3133.0	1532.9	844.2
85°	349.2	374.1	502.7	725.2	1458.1	2014.5	2012.6	2225.6	1475.4	986.2	445.1
87.5°	166.9	186.1	268.6	376.0	734.8	755.9	708.0	802.0	896.0	646.6	224.5
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°	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6	5711.6
2.5°	5707.8	5700.1	5675.2	5656.0	5652.1	5640.6	5631.0	5636.8	5644.5	5646.4	5646.4
5°	5705.9	5684.8	5652.1	5638.7	5656.0	5679.0	5707.8	5746.2	5769.2	5786.4	5798.0
7.5°	5798.0	5757.7	5721.2	5713.5	5748.1	5809.5	5874.7	5955.3	6010.9	6049.3	6057.0
10°	5951.4	5901.6	5865.1	5872.8	5934.2	6022.4	6114.5	6218.1	6302.5	6354.3	6358.2
12.5°	6128.0	6080.0	6045.5	6078.1	6179.8	6287.2	6383.1	6473.3	6550.0	6601.8	6601.8
15°	6331.3	6296.8	6256.5	6331.3	6469.5	6565.4	6605.7	6649.8	6692.0	6730.4	6722.7
17.5°	6527.0	6494.4	6473.3	6561.6	6705.4	6749.6	6722.7	6690.1	6690.1	6711.2	6715.0
20°	6695.9	6667.1	6680.5	6766.8	6841.7	6795.6	6695.9	6592.2	6550.0	6561.6	6573.1
22.5°	6843.6	6830.2	6870.4	6910.7	6857.0	6695.9	6511.7	6371.6	6319.8	6316.0	6319.8
25°	7016.3	7014.3	7064.2	6991.3	6753.4	6456.0	6208.5	6072.3	6043.5	6066.6	6104.9
27.5°	7231.1	7252.2	7277.2	7010.5	6542.4	6093.4	5842.1	5748.1	5776.9	5832.5	5868.9
30°	7505.5	7563.1	7509.3	6962.5	6239.2	5679.0	5439.2	5412.3	5491.0	5569.6	5608.0
32.5°	7772.2	7862.4	7731.9	6837.8	5847.8	5239.6	5053.5	5045.9	5141.8	5218.5	5272.3
35°	7987.1	8165.5	7898.8	6590.3	5395.1	4834.8	4698.6	4646.8	4681.3	4771.5	4832.9
37.5°	8267.2	8564.6	8013.9	6212.4	4903.9	4501.0	4341.8	4222.8	4192.1	4228.6	4259.3
40°	8779.4	9172.7	8067.6	5684.8	4424.3	4167.2	4006.0	3831.4	3710.5	3622.3	3624.2
42.5°	9615.9	9965.1	8033.1	5044.0	3981.1	3841.0	3658.7	3457.3	3261.6	3062.1	3046.7
45°	10974.3	11143.1	7929.5	4364.8	3591.6	3499.5	3328.7	3127.3	2866.4	2640.0	2618.9
47.5°	13148.0	12773.9	7768.3	3771.9	3248.2	3209.8	3052.5	2820.3	2544.0	2361.8	2346.4
50°	16112.3	15128.0	7689.7	3300.0	2945.0	2956.5	2828.0	2582.4	2321.5	2187.2	2171.8
52.5°	19657.8	17869.7	7841.2	2935.4	2701.4	2741.7	2645.7	2415.5	2196.8	2091.3	2075.9
55°	23335.7	20709.2	8004.3	2670.7	2471.1	2549.8	2517.2	2327.2	2129.6	2031.8	2018.3
57.5°	26484.1	22829.2	7678.2	2455.8	2265.8	2388.6	2417.4	2271.6	2095.1	2006.8	1991.5
60°	28466.0	23683.0	6822.5	2254.3	2102.8	2260.1	2359.9	2256.3	2108.5	2100.8	2089.3
62.5°	29406.1	23608.2	5538.9	2095.1	2001.1	2204.5	2402.1	2342.6	2262.0	2331.1	2336.8
65°	28984.0	22480.0	4125.0	1989.6	1928.2	2225.6	2528.7	2505.7	2306.1	2375.2	2384.8
67.5°	26205.9	19788.3	3054.4	1897.5	1847.6	2285.0	2758.9	2559.4	2219.8	2269.7	2239.0
70°	21181.2	15688.3	2356.0	1793.9	1765.1	2277.4	2862.5	2526.8	2125.8	2137.3	2054.8
72.5°	14606.2	10698.0	1916.7	1697.9	1646.1	2075.9	2789.6	2446.2	2047.1	1958.9	1849.5
75°	7942.9	5742.3	1628.9	1598.2	1437.0	1822.7	2655.3	2388.6	1976.1	1859.1	1797.7
77.5°	3125.4	2382.9	1414.0	1462.0	1256.7	1609.7	2505.7	2279.3	1878.3	1724.8	1694.1
80°	1275.9	1216.4	1172.3	1264.3	1080.2	1408.2	2325.3	2150.7	1761.3	1600.1	1538.7
82.5°	723.3	755.9	911.3	997.7	876.8	1297.0	2239.0	2047.1	1621.2	1433.2	1360.3
85°	370.3	443.2	635.1	715.6	644.6	1103.2	2062.5	1792.0	1300.8	1097.4	1103.2
87.5°	178.4	247.5	401.0	448.9	418.3	798.1	1540.6	1298.9	1013.0	802.0	777.0
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)