

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: P383689

Luminaire Tested: **GLEON-SA9C-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383689  
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-SA9C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58493.7 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

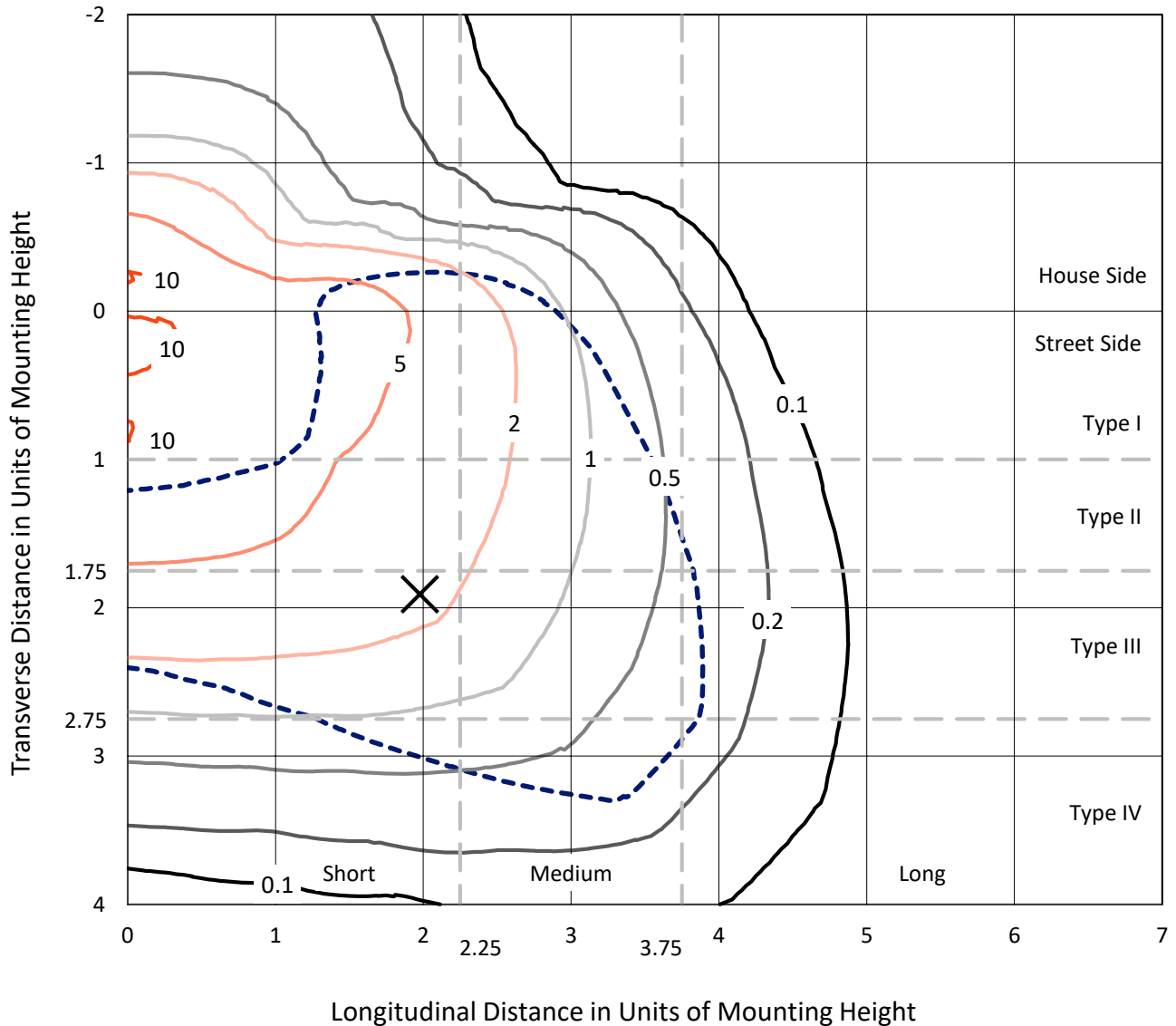
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

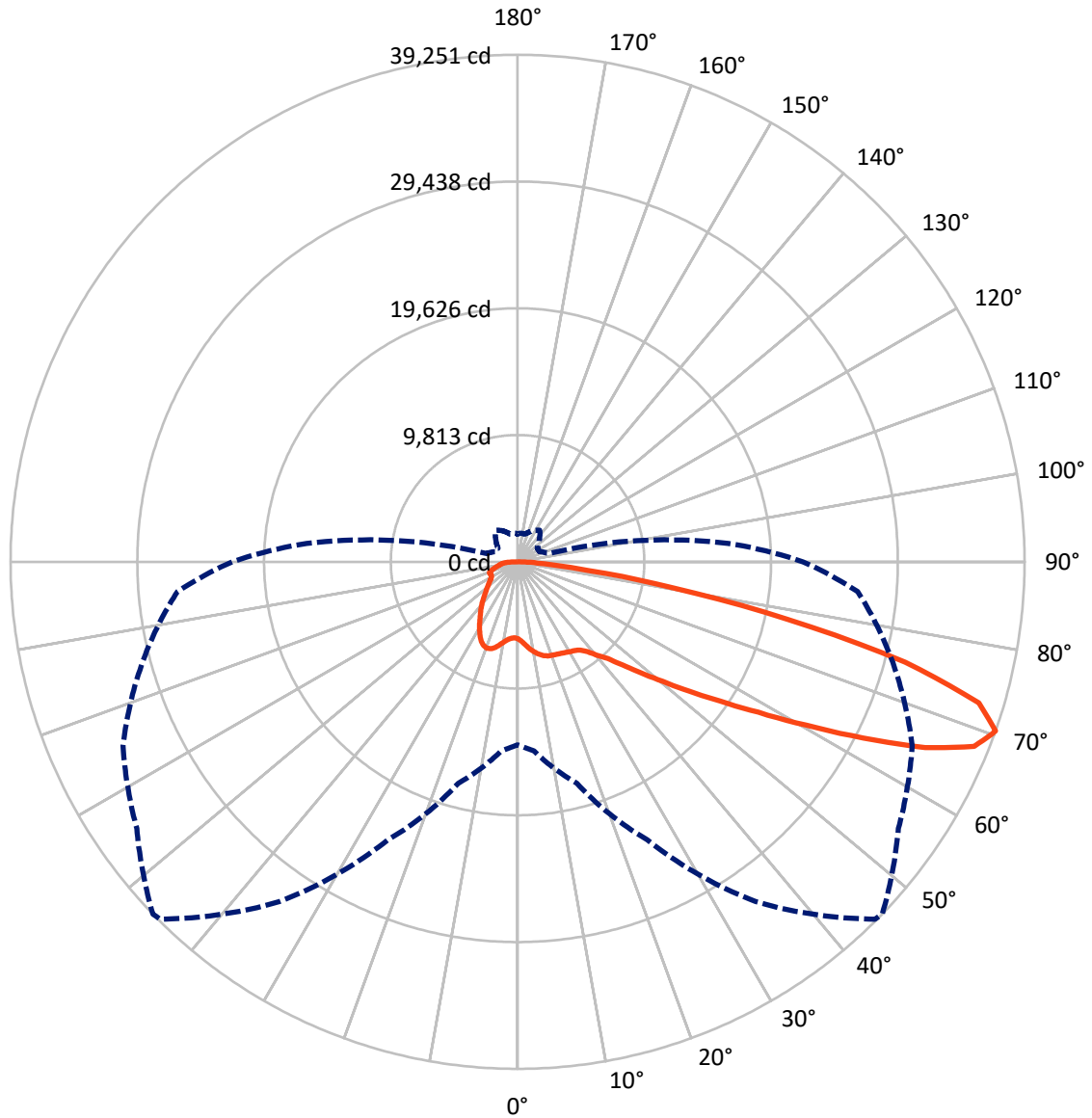
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	13406.6	0.0	13406.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	45087.1	0.0	45087.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	58493.7	0.0	58493.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.5	1.0
10°-20°	2024.1	3.5
20°-30°	3374.9	5.8
30°-40°	4789.2	8.2
40°-50°	7044.6	12.0
50°-60°	11930.0	20.4
60°-70°	16934.4	29.0
70°-80°	10287.8	17.6
80°-90°	1501.4	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°	58493.7	100.0
0°-180°	58493.7	100.0

**Coefficient of Utilization**

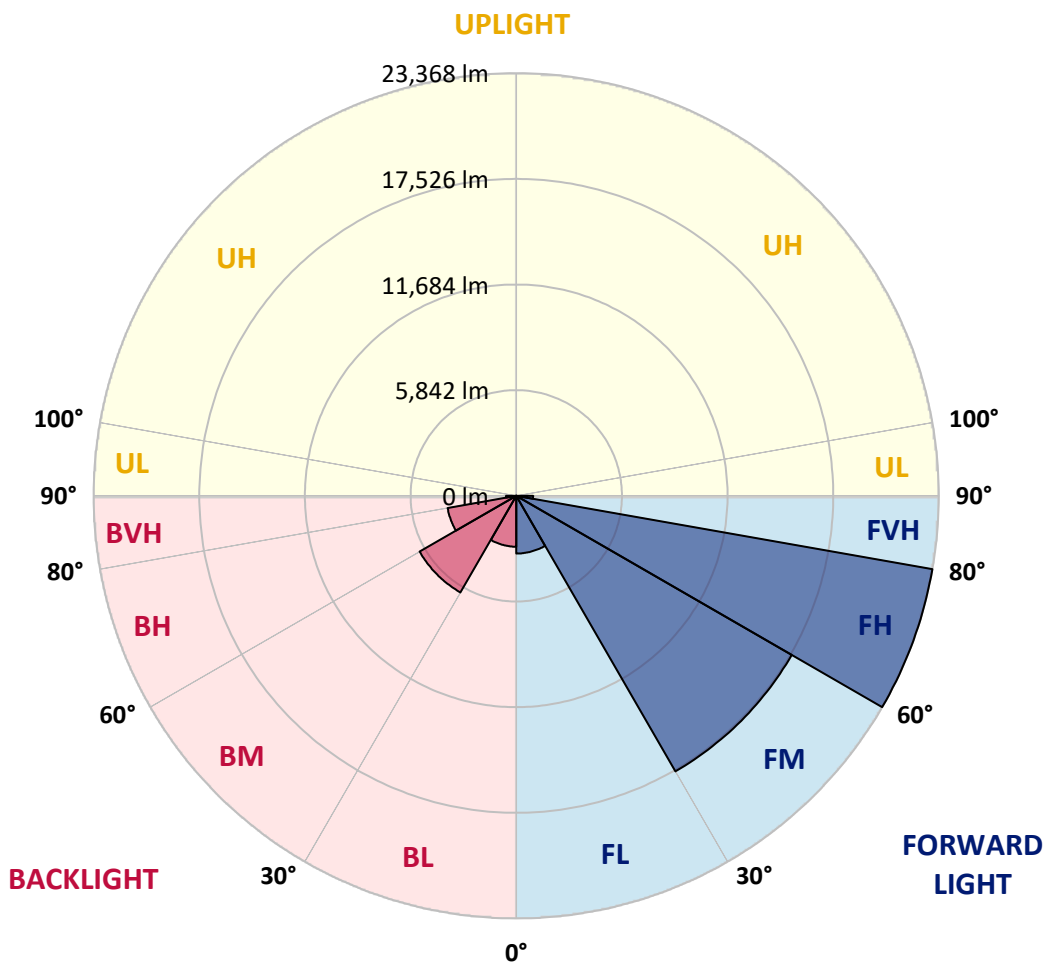


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3191.7	5.5			
FM (30°-60°)	17592.3	30.1			
FH (60°-80°)	23367.9	39.9			G5
FVH (80°-90°)	935.2	1.6			G5
BL (0°-30°)	2814.8	4.8	B4/5000		
BM (30°-60°)	6171.4	10.6	B4/8500		
BH (60°-80°)	3854.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	566.1	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°	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4
2.5°	6257.7	6261.7	6269.7	6249.7	6193.6	6177.6	6171.6	6113.5	6075.5	6019.4	5971.4
5°	6758.1	6762.1	6750.1	6694.0	6569.9	6477.8	6469.8	6337.7	6217.6	6089.5	5993.4
7.5°	7280.5	7286.6	7248.6	7142.5	6968.3	6808.1	6798.2	6618.0	6435.8	6241.6	6097.4
10°	7742.9	7719.0	7656.9	7508.7	7302.6	7106.4	7098.4	6910.2	6700.1	6465.8	6273.7
12.5°	8051.3	8031.2	7951.1	7771.0	7544.8	7364.6	7348.6	7174.5	6970.3	6714.0	6483.9
15°	8221.4	8235.4	8127.3	7923.1	7703.0	7550.8	7536.8	7412.7	7230.5	6972.3	6708.1
17.5°	8243.5	8255.5	8151.3	7949.2	7769.0	7664.9	7658.9	7576.8	7444.7	7196.5	6920.2
20°	8115.3	8123.3	8037.2	7871.1	7753.0	7720.9	7719.0	7682.9	7584.8	7364.6	7096.4
22.5°	7929.1	7935.1	7873.1	7753.0	7712.9	7763.0	7777.0	7763.0	7692.9	7486.8	7234.5
25°	7883.1	7879.1	7815.0	7692.9	7727.0	7833.0	7851.1	7857.0	7809.1	7628.9	7410.6
27.5°	8105.3	8091.3	7969.2	7773.0	7795.0	7923.1	7947.1	8005.3	7975.2	7817.1	7610.8
30°	8747.9	8723.9	8473.6	8077.3	7969.2	8035.3	8065.2	8157.4	8163.3	8031.2	7877.1
32.5°	9832.9	9802.9	9354.4	8645.8	8263.5	8149.4	8177.4	8315.5	8389.5	8287.4	8121.3
35°	11204.1	11170.1	10581.5	9612.6	8755.9	8367.5	8387.6	8497.7	8645.8	8501.7	8281.5
37.5°	12633.4	12551.3	11984.8	10749.7	9538.6	8834.0	8834.0	8847.9	8918.1	8617.7	8469.6
40°	14054.6	13972.6	13460.1	12086.9	10551.5	9568.6	9522.6	9212.3	9156.3	8898.0	8847.9
42.5°	15375.8	15351.8	15049.5	13598.3	11740.6	10291.3	10227.2	9700.8	9712.8	9552.6	9554.6
45°	16781.1	16781.1	16534.9	15123.6	13125.8	11452.4	11388.3	10613.6	10733.7	10659.6	10837.7
47.5°	17928.1	17964.2	17930.1	16713.1	14737.3	12927.6	12811.6	11878.7	12215.0	12469.2	12987.7
50°	19099.2	19155.2	19161.3	18456.7	16685.0	14681.2	14549.1	13558.2	14308.9	15037.5	16056.4
52.5°	20798.8	20924.9	20422.4	20196.2	19071.2	16763.1	16633.0	15718.2	16971.3	17994.2	19749.7
55°	22374.2	22264.1	21905.7	22045.8	21625.5	19133.2	19035.2	18232.4	19937.9	21267.1	23547.2
57.5°	23226.9	23218.9	23579.2	24179.8	24380.0	22055.9	21973.8	21193.1	23283.0	24281.9	27112.4
60°	24227.8	24241.8	25134.6	26497.9	27322.6	25695.2	25659.1	25066.5	26531.9	27096.4	29908.9
62.5°	24368.0	24620.2	26157.6	28503.7	30077.1	29946.9	30027.0	28555.8	29438.5	29342.4	31996.8
65°	22756.5	23088.8	25871.3	29110.2	32815.5	34597.1	34671.3	32064.9	31730.6	31262.2	32743.5
67.5°	19453.5	19945.9	22968.7	27791.0	33718.4	38034.3	38138.3	34785.3	33632.3	31912.8	30945.8
70°	14156.7	14703.3	17746.0	23735.4	32109.0	39133.2	39251.3	35988.4	33704.3	30061.0	26417.8
72.5°	8551.7	8980.1	11488.3	17473.7	27100.4	37131.4	37341.6	34463.1	30771.7	25462.9	19507.5
75°	3755.3	4035.7	5555.0	10069.1	19401.4	30721.7	30983.9	29498.6	25002.6	18504.6	11530.4
77.5°	1599.5	1679.5	2278.0	4373.9	10967.9	20992.9	21353.2	21553.4	16963.3	10069.1	4872.4
80°	996.9	1028.9	1289.2	1979.8	5132.6	11790.6	12179.0	12681.4	8423.6	3701.3	1701.6
82.5°	606.5	642.6	856.7	1197.0	2672.4	5344.8	5531.0	5885.3	3269.0	1599.5	880.8
85°	364.3	390.3	524.5	756.7	1521.4	2101.9	2099.9	2322.1	1539.4	1028.9	464.4
87.5°	174.2	194.1	280.2	392.4	766.7	788.7	738.6	836.7	934.8	674.6	234.2
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°	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4
2.5°	5955.4	5947.4	5921.3	5901.4	5897.3	5885.3	5875.3	5881.3	5889.3	5891.3	5891.3
5°	5953.3	5931.3	5897.3	5883.3	5901.4	5925.3	5955.4	5995.4	6019.4	6037.5	6049.5
7.5°	6049.5	6007.4	5969.4	5961.3	5997.4	6061.5	6129.5	6213.6	6271.6	6311.7	6319.7
10°	6209.6	6157.5	6119.5	6127.5	6191.5	6283.7	6379.7	6487.9	6575.9	6630.0	6634.0
12.5°	6393.8	6343.7	6307.7	6341.7	6447.8	6559.9	6660.0	6754.1	6834.1	6888.2	6888.2
15°	6606.0	6569.9	6527.9	6606.0	6750.1	6850.1	6892.2	6938.3	6982.3	7022.3	7014.3
17.5°	6810.2	6776.1	6754.1	6846.1	6996.3	7042.3	7014.3	6980.3	6980.3	7002.4	7006.4
20°	6986.3	6956.2	6970.3	7060.4	7138.4	7090.4	6986.3	6878.2	6834.1	6846.1	6858.1
22.5°	7140.4	7126.4	7168.4	7210.5	7154.5	6986.3	6794.1	6648.0	6594.0	6590.0	6594.0
25°	7320.6	7318.6	7370.7	7294.6	7046.3	6736.0	6477.8	6335.7	6305.6	6329.7	6369.7
27.5°	7544.8	7566.8	7592.9	7314.6	6826.1	6357.7	6095.5	5997.4	6027.4	6085.5	6123.5
30°	7831.1	7891.1	7835.1	7264.6	6509.8	5925.3	5675.1	5647.0	5729.2	5811.3	5851.2
32.5°	8109.3	8203.4	8067.3	7134.4	6101.5	5466.9	5272.7	5264.7	5364.9	5444.9	5501.0
35°	8333.5	8519.7	8241.4	6876.2	5629.1	5044.5	4902.5	4848.3	4884.4	4978.5	5042.6
37.5°	8625.8	8936.1	8361.6	6481.8	5116.6	4696.2	4530.1	4405.9	4373.9	4412.0	4444.0
40°	9160.3	9570.6	8417.6	5931.3	4616.2	4347.9	4179.8	3997.6	3871.5	3779.4	3781.4
42.5°	10033.0	10397.4	8381.5	5262.8	4153.8	4007.6	3817.5	3607.2	3403.0	3194.8	3178.9
45°	11450.3	11626.5	8273.4	4554.1	3747.3	3651.3	3473.1	3262.9	2990.7	2754.5	2732.4
47.5°	13718.3	13328.0	8105.3	3935.5	3389.1	3349.0	3184.9	2942.7	2654.4	2464.2	2448.2
50°	16811.2	15784.2	8023.2	3443.1	3072.8	3084.8	2950.7	2694.4	2422.2	2282.0	2266.1
52.5°	20510.4	18644.8	8181.4	3062.7	2818.6	2860.6	2760.5	2520.3	2292.1	2182.0	2165.9
55°	24348.0	21607.4	8351.5	2786.5	2578.3	2660.4	2626.4	2428.2	2222.0	2119.9	2105.9
57.5°	27632.9	23819.5	8011.2	2562.3	2364.2	2492.3	2522.3	2370.1	2186.0	2093.8	2077.9
60°	29700.7	24710.2	7118.4	2352.2	2194.0	2358.1	2462.2	2354.1	2199.9	2191.9	2180.0
62.5°	30681.6	24632.2	5779.2	2186.0	2087.9	2300.1	2506.2	2444.2	2360.2	2432.2	2438.2
65°	30241.2	23455.2	4303.8	2075.9	2011.8	2322.1	2638.4	2614.4	2406.2	2478.2	2488.3
67.5°	27342.6	20646.6	3186.8	1979.8	1927.7	2384.1	2878.6	2670.4	2316.1	2368.1	2336.1
70°	22099.9	16368.8	2458.2	1871.7	1841.7	2376.1	2986.7	2636.4	2218.0	2230.0	2144.0
72.5°	15239.7	11162.1	1999.8	1771.6	1717.6	2165.9	2910.6	2552.3	2135.9	2043.8	1929.7
75°	8287.4	5991.4	1699.5	1667.5	1499.3	1901.8	2770.5	2492.3	2061.9	1939.8	1875.7
77.5°	3261.0	2486.2	1475.3	1525.4	1311.2	1679.5	2614.4	2378.1	1959.8	1799.7	1767.6
80°	1331.2	1269.1	1223.1	1319.2	1127.0	1469.3	2426.2	2244.0	1837.7	1669.5	1605.4
82.5°	754.6	788.7	950.8	1040.9	914.8	1353.3	2336.1	2135.9	1691.5	1495.3	1419.3
85°	386.3	462.4	662.6	746.6	672.6	1151.0	2152.0	1869.7	1357.3	1145.1	1151.0
87.5°	186.1	258.2	418.4	468.4	436.4	832.7	1607.5	1355.2	1056.9	836.7	810.7
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)