

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: P457574

Luminaire Tested: **GALN-SA8D-830-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-830-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49923 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

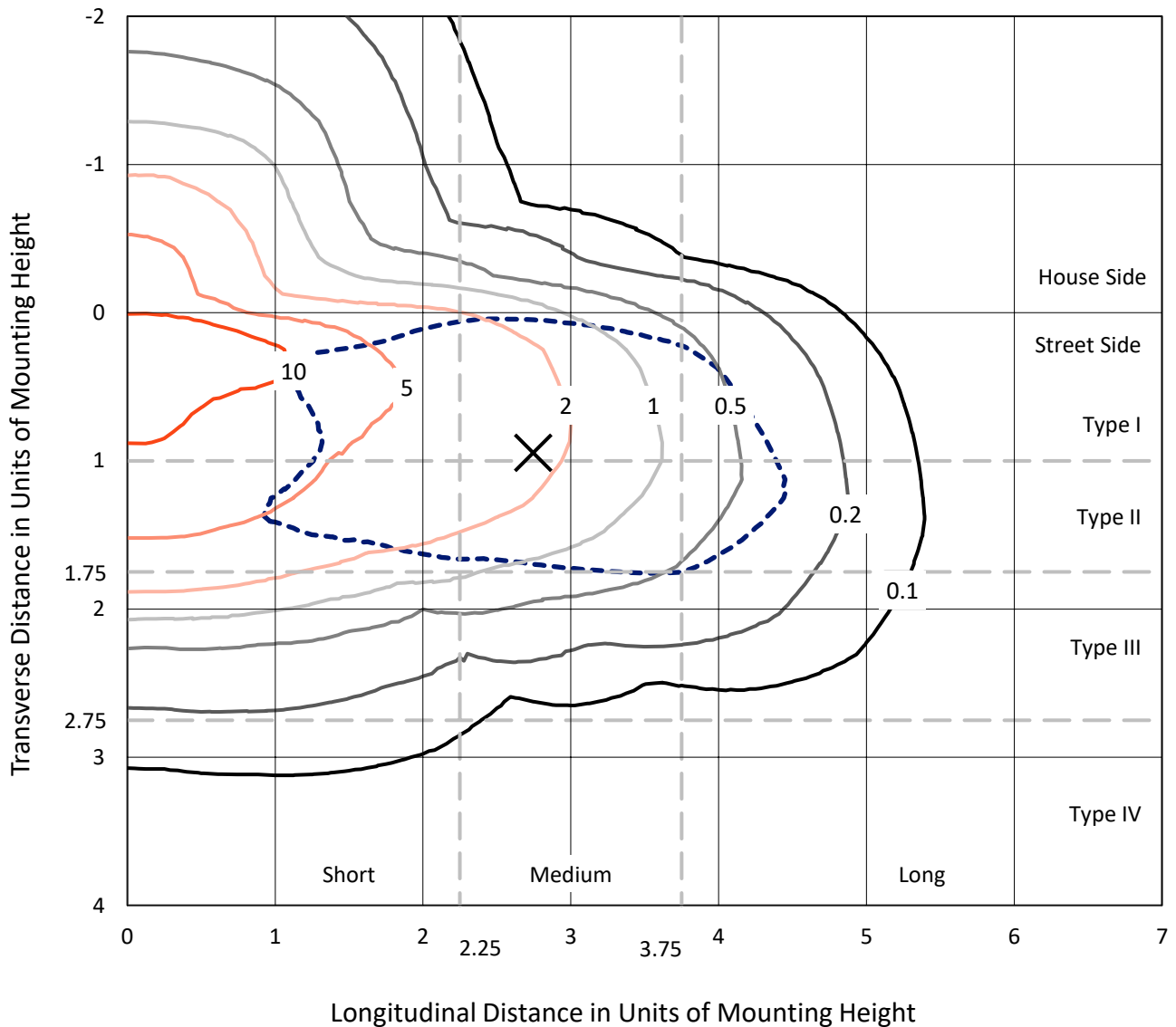
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

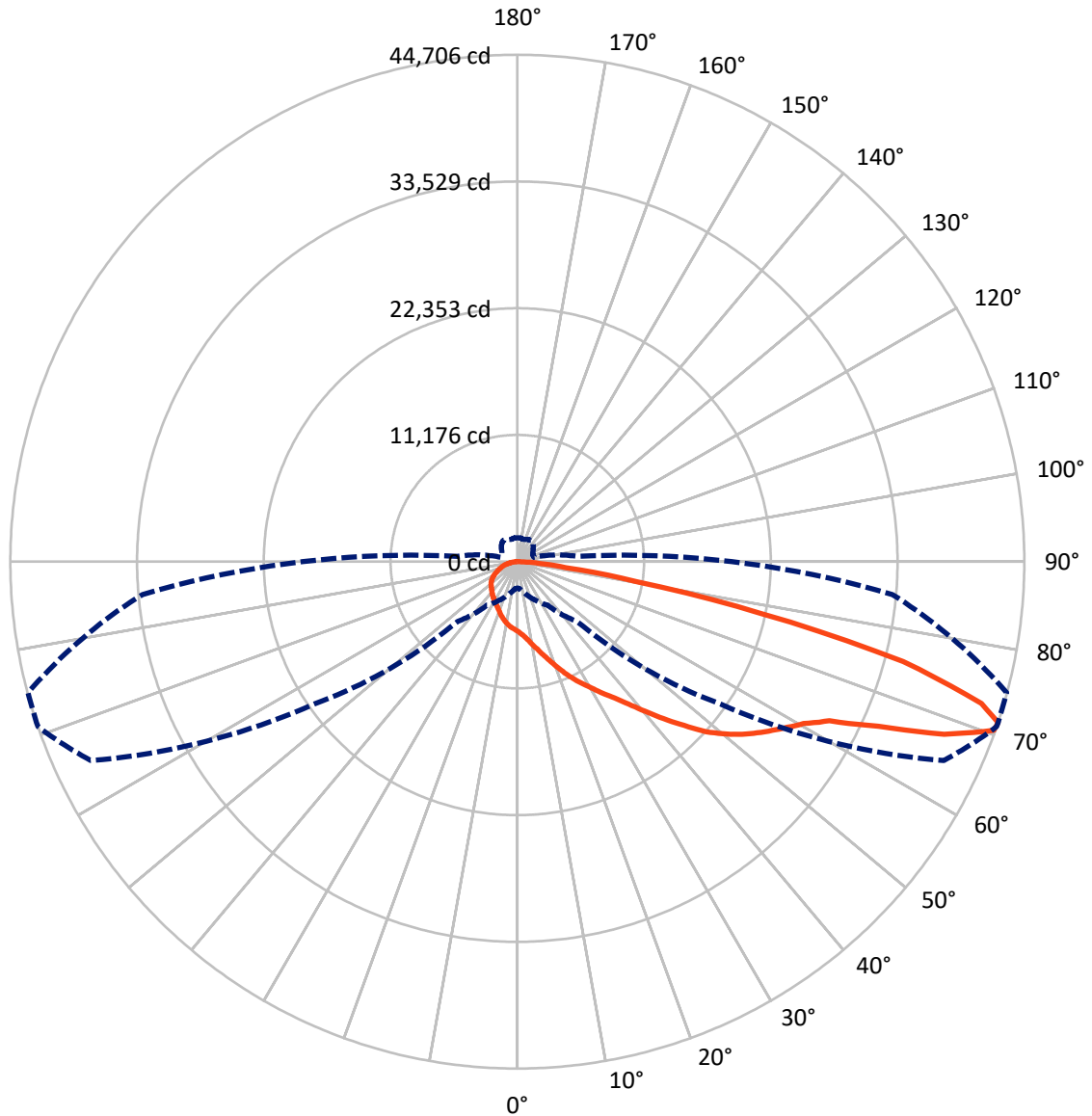
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8978.5	0.0	8978.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	40944.5	0.0	40944.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	49923.0	0.0	49923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.2	1.2
10°-20°	1998.7	4.0
20°-30°	3492.9	7.0
30°-40°	5195.3	10.4
40°-50°	7654.6	15.3
50°-60°	10716.6	21.5
60°-70°	11986.1	24.0
70°-80°	7321.6	14.7
80°-90°	941.8	1.9
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°	49923.0	100.0
0°-180°	49923.0	100.0

**Coefficient of Utilization**



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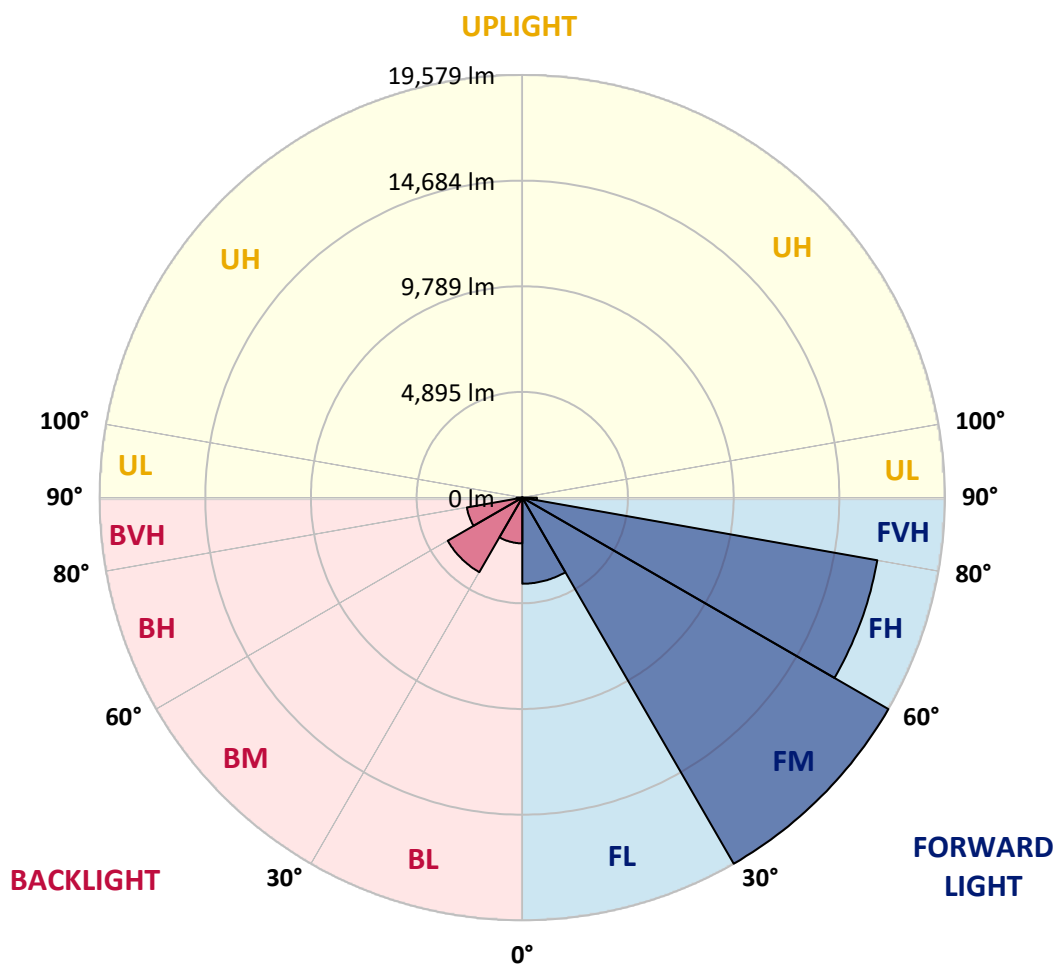
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3988.9	8.0			
FM	(30°-60°)	19578.8	39.2			
FH	(60°-80°)	16699.1	33.4			G5
FVH	(80°-90°)	677.7	1.4			G4/750
BL	(0°-30°)	2118.0	4.2	B3/2500		
BM	(30°-60°)	3987.7	8.0	B3/5000		
BH	(60°-80°)	2608.7	5.2	B4/5000		G4/5000
BVH	(80°-90°)	264.1	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1
2.5°	6802.1	6769.1	6771.9	6725.2	6664.9	6599.0	6505.7	6423.4	6357.5	6319.1	6206.6
5°	7537.4	7504.5	7463.3	7361.8	7317.9	7156.0	6950.2	6763.6	6621.0	6541.4	6316.4
7.5°	8132.8	8124.6	8113.6	8056.0	7943.5	7718.5	7542.9	7219.1	7007.8	6856.9	6472.8
10°	8500.5	8514.2	8522.5	8533.4	8486.8	8368.8	8127.3	7718.5	7449.6	7257.5	6675.8
12.5°	8687.1	8700.8	8747.5	8849.0	8912.1	8898.4	8700.8	8300.2	7929.8	7677.4	6892.6
15°	8802.3	8824.3	8906.6	9041.1	9252.3	9386.8	9290.7	8920.3	8514.2	8215.1	7150.5
17.5°	8928.6	8953.3	9043.8	9235.9	9513.0	9803.9	9908.1	9589.8	9148.1	8791.4	7438.6
20°	8999.9	9032.8	9161.8	9414.2	9738.0	10160.6	10506.3	10338.9	9856.0	9460.9	7770.6
22.5°	9115.1	9142.6	9252.3	9521.2	9908.1	10437.7	11104.4	11068.8	10643.5	10133.1	8135.6
25°	9427.9	9471.8	9526.7	9688.6	10061.8	10720.3	11601.1	11848.0	11406.3	10835.5	8470.3
27.5°	10017.9	10053.5	10050.8	10072.7	10284.0	10964.5	12031.9	12619.1	12163.6	11546.2	8794.1
30°	10690.1	10703.8	10714.8	10665.4	10712.1	11214.2	12427.0	13381.9	12926.4	12276.1	9076.7
32.5°	11507.8	11535.2	11441.9	11315.7	11277.3	11584.6	12753.5	14144.7	13829.1	13016.9	9356.6
35°	12473.6	12545.0	12355.7	12133.4	11977.0	12116.9	13192.5	14923.9	14753.8	13963.6	9727.0
37.5°	13576.7	13664.5	13488.9	13052.6	12830.3	12868.8	13766.0	15887.0	15922.7	15041.9	10278.5
40°	14479.4	14594.6	14600.1	13982.8	13645.3	13689.2	14493.1	16924.2	17333.0	16375.4	10928.8
42.5°	15074.8	15187.3	15305.3	14943.1	14589.2	14838.9	15341.0	18049.2	18919.0	17994.3	11837.1
45°	15727.9	15829.4	15895.2	15730.6	15533.1	16180.6	16364.4	19245.5	20609.2	19802.5	12830.3
47.5°	16485.2	16597.7	16660.8	16504.4	16430.3	17357.7	17467.5	20362.3	22414.7	21558.6	13927.9
50°	17494.9	17580.0	17547.1	17448.3	17431.8	18260.5	18526.6	21407.7	23904.6	23449.1	15066.6
52.5°	18751.6	18853.1	18888.8	18748.9	18685.8	18905.3	19380.0	22359.8	25260.1	25073.5	16282.1
55°	19511.7	19673.6	20216.8	20436.3	20587.3	19739.4	20299.2	23410.7	26475.6	26785.7	17588.2
57.5°	18537.6	18746.1	19961.7	21059.2	22477.8	21824.7	21602.5	24508.3	27691.1	28445.7	19152.2
60°	16161.4	16208.0	17774.8	19797.0	22650.7	24505.5	24321.7	26253.4	29008.2	30119.5	21212.9
62.5°	11211.5	11310.2	13162.3	16389.1	20515.9	25471.4	28947.8	29266.1	30896.0	32624.6	24233.9
65°	5781.3	5652.4	7339.9	10300.5	15467.2	23177.5	32696.0	34806.0	34989.8	36542.9	28486.9
67.5°	3558.8	3616.4	4406.7	6014.6	9145.3	16844.6	32303.6	41575.1	40606.5	41352.9	32435.3
70°	2672.5	2743.9	3287.2	4115.8	5575.5	9631.0	25979.0	43216.0	44568.7	44376.6	33637.1
71°	2324.1	2398.1	2963.4	3745.4	4683.8	7433.1	21887.9	41498.3	44705.9	44673.0	33184.4
72.5°	1981.1	2027.7	2469.5	3171.9	3948.4	5210.6	16444.0	37217.9	42798.9	43893.7	31568.2
75°	1555.8	1591.4	1789.0	2420.1	3108.8	3199.4	8824.3	27902.4	35151.7	37237.1	26280.8
77.5°	1267.7	1292.4	1393.9	1797.2	2398.1	2266.4	4628.9	18161.7	22022.3	24121.4	15480.9
80°	1007.0	1034.4	1094.8	1218.3	1797.2	1616.1	2208.8	9202.9	10638.0	10616.0	6179.2
82.5°	782.0	790.2	861.6	894.5	1229.3	1146.9	1196.3	3896.3	4316.1	4458.8	2230.8
85°	493.9	518.6	762.8	686.0	735.4	672.2	589.9	1547.5	1907.0	1879.6	891.8
87.5°	150.9	159.1	257.9	290.9	326.5	293.6	216.8	455.5	557.0	603.7	222.3
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°	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1	6127.1
2.5°	6162.7	6132.6	6025.5	5937.7	5855.4	5764.9	5688.0	5666.1	5646.9	5638.7	5635.9
5°	6220.4	6129.8	5918.5	5745.7	5608.5	5482.3	5402.7	5367.0	5331.3	5331.3	5342.3
7.5°	6302.7	6138.0	5811.5	5553.6	5380.7	5262.7	5205.1	5199.6	5207.9	5216.1	5218.8
10°	6393.2	6132.6	5655.1	5334.1	5180.4	5125.6	5128.3	5174.9	5218.8	5251.8	5257.3
12.5°	6481.0	6099.6	5471.3	5128.3	5029.5	5040.5	5117.3	5221.6	5306.6	5353.3	5356.0
15°	6579.8	6047.5	5249.0	4933.5	4900.6	4985.6	5128.3	5287.4	5416.4	5493.2	5501.5
17.5°	6662.1	5959.7	5015.8	4744.2	4785.3	4941.7	5139.3	5345.1	5501.5	5597.5	5614.0
20°	6755.4	5847.2	4774.3	4563.1	4681.0	4892.3	5117.3	5339.6	5501.5	5594.8	5616.7
22.5°	6829.5	5688.0	4543.9	4414.9	4587.8	4832.0	5043.2	5221.6	5353.3	5402.7	5435.6
25°	6859.7	5487.7	4327.1	4294.2	4513.7	4733.2	4875.9	4977.4	5018.5	5013.1	5026.8
27.5°	6843.2	5257.3	4140.5	4198.1	4420.4	4579.5	4650.9	4642.6	4568.5	4499.9	4532.9
30°	6774.6	4982.9	3984.1	4099.3	4299.6	4387.4	4376.5	4269.5	4129.5	4000.6	4008.8
32.5°	6651.1	4686.5	3838.7	3986.8	4129.5	4167.9	4093.9	3953.9	3753.6	3586.2	3561.5
35°	6546.9	4403.9	3709.7	3857.9	3959.4	3940.2	3868.9	3687.8	3506.7	3358.5	3333.8
37.5°	6530.4	4162.5	3586.2	3712.5	3770.1	3742.6	3654.8	3501.2	3435.3	3322.8	3309.1
40°	6618.2	3992.3	3460.0	3558.8	3586.2	3564.3	3468.3	3380.4	3440.8	3413.4	3413.4
42.5°	6856.9	3901.8	3347.5	3405.1	3427.1	3443.6	3375.0	3300.9	3375.0	3248.7	3207.6
45°	7235.6	3904.5	3246.0	3254.2	3320.1	3377.7	3331.1	3221.3	3182.9	2930.5	2881.1
47.5°	7792.6	3997.8	3163.7	3111.5	3229.5	3325.6	3259.7	3100.6	2930.5	2763.1	2732.9
50°	8442.9	4165.2	3089.6	2963.4	3108.8	3259.7	3210.3	3023.7	2848.1	2746.6	2727.4
52.5°	9164.5	4376.5	2999.1	2798.7	2960.6	3229.5	3221.3	3012.8	2771.3	2702.7	2686.2
55°	10056.3	4585.0	2886.6	2606.7	2828.9	3204.8	3191.1	2922.2	2754.8	2705.5	2700.0
57.5°	11093.5	4886.8	2724.7	2411.9	2678.0	3103.3	3073.1	2867.3	2700.0	2664.3	2661.6
60°	12764.5	5356.0	2494.2	2233.5	2524.4	2925.0	2963.4	2774.1	2612.2	2603.9	2601.2
62.5°	14962.3	6014.6	2255.5	2049.7	2346.0	2694.5	2804.2	2647.8	2518.9	2560.0	2565.5
65°	17997.0	6568.8	2008.5	1893.3	2148.5	2472.2	2653.3	2529.8	2414.6	2494.2	2494.2
67.5°	19975.4	6579.8	1783.5	1731.4	1948.1	2285.6	2494.2	2389.9	2280.2	2414.6	2420.1
70°	19563.8	5764.9	1596.9	1561.3	1753.3	2085.3	2318.6	2236.3	2110.0	2230.8	2186.9
71°	18899.8	5312.1	1522.8	1495.4	1676.5	1989.3	2236.3	2167.7	2041.4	2121.0	2096.3
72.5°	17840.6	4612.4	1402.1	1407.6	1561.3	1868.6	2121.0	2049.7	1923.5	1967.4	1959.1
75°	15080.3	4028.0	1199.1	1223.8	1341.8	1662.8	1890.5	1835.6	1706.7	1706.7	1698.5
77.5°	9427.9	2815.2	996.0	1009.7	1138.7	1424.1	1624.4	1577.7	1454.3	1413.1	1402.1
80°	3517.6	1454.3	779.3	795.7	875.3	1122.2	1344.5	1300.6	1174.4	1127.7	1083.8
82.5°	1330.8	729.9	573.5	559.7	644.8	856.1	1053.6	1001.5	902.7	790.2	757.3
85°	502.1	362.2	351.2	340.2	378.7	507.6	653.0	642.1	537.8	458.2	450.0
87.5°	131.7	118.0	137.2	101.5	107.0	96.0	98.8	41.2	19.2	8.2	5.5
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)