

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: P457174

Luminaire Tested: **GALN-SA8C-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48586 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

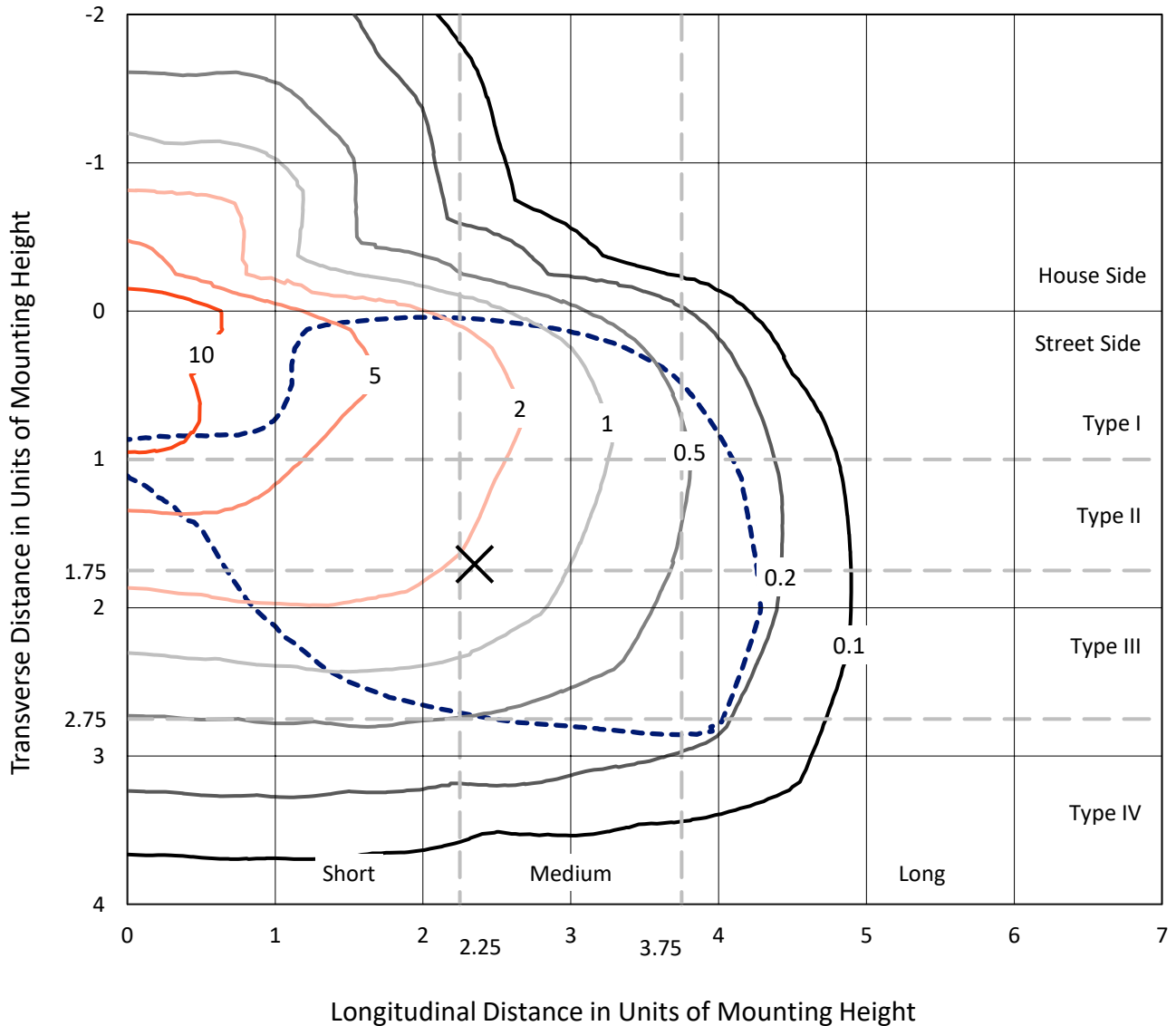




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### Iso-Footcandle Lines of Horizontal Illumination

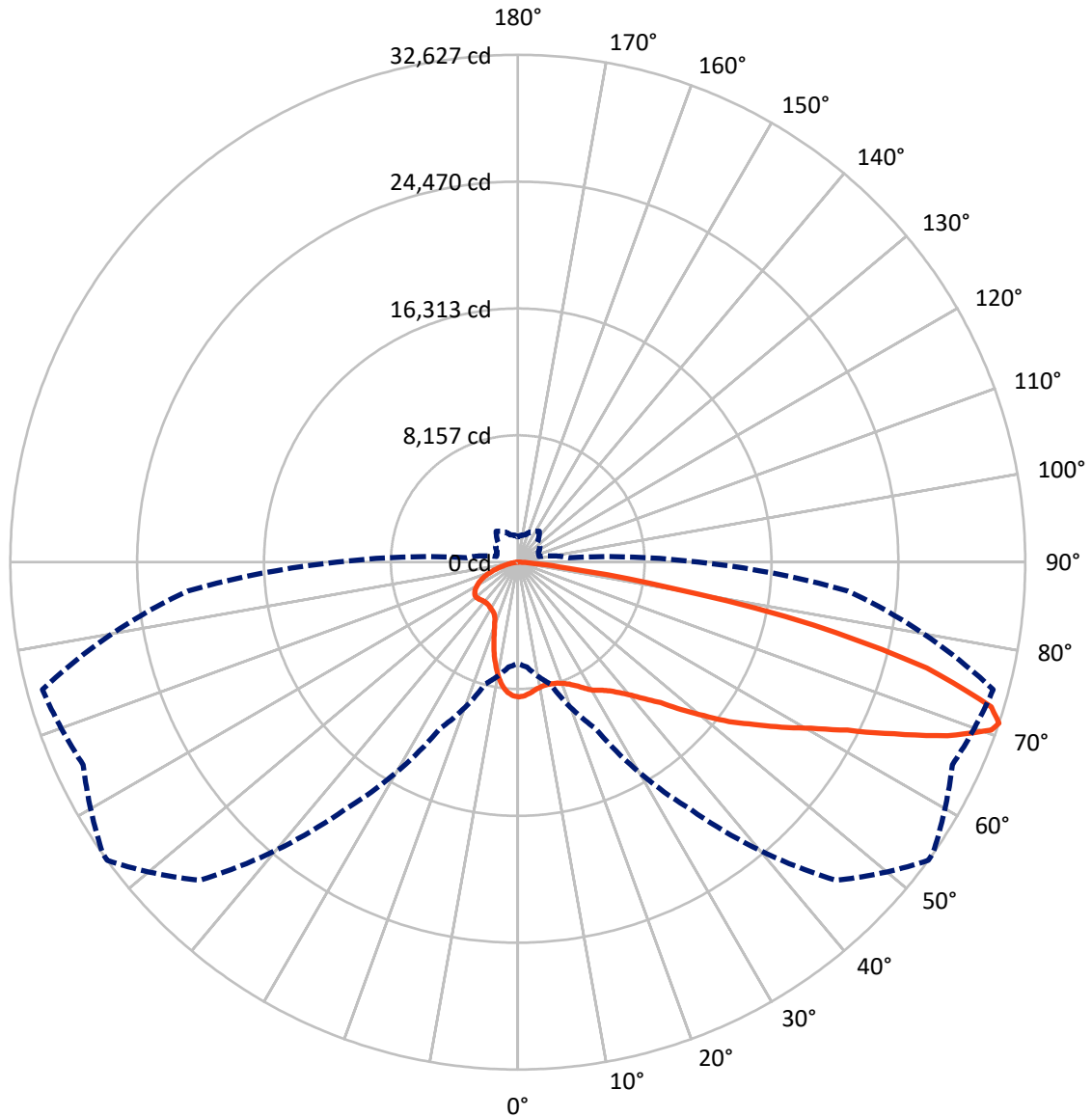
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8771.9	0.0	8771.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	39814.1	0.0	39814.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	48586.0	0.0	48586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.5	1.6
10°-20°	2039.8	4.2
20°-30°	3396.3	7.0
30°-40°	5022.0	10.3
40°-50°	7073.7	14.6
50°-60°	9472.0	19.5
60°-70°	11938.7	24.6
70°-80°	8154.1	16.8
80°-90°	717.1	1.5
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°	48586.0	100.0
0°-180°	48586.0	100.0

**Coefficient of Utilization**



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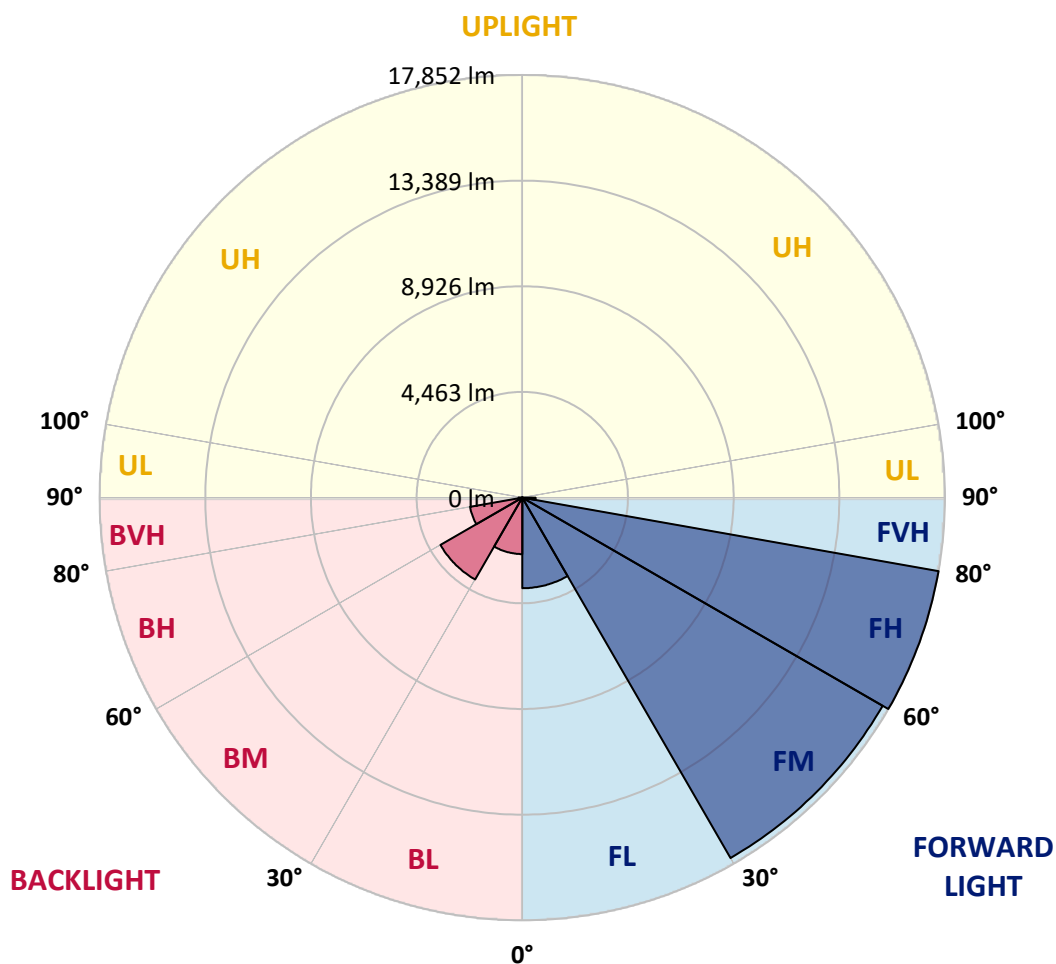
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3824.5	7.9			
FM	(30°-60°)	17576.7	36.2			
FH	(60°-80°)	17852.4	36.7			G5
FVH	(80°-90°)	560.5	1.2			G4/750
BL	(0°-30°)	2384.0	4.9	B3/2500		
BM	(30°-60°)	3991.0	8.2	B3/5000		
BH	(60°-80°)	2240.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	156.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5
2.5°	8374.5	8413.9	8424.4	8450.6	8505.7	8550.4	8595.0	8589.7	8652.7	8679.0	8702.6
5°	8001.9	8012.4	8051.7	8104.2	8201.3	8324.7	8445.4	8448.0	8602.9	8726.2	8786.6
7.5°	7728.9	7763.0	7789.3	7844.4	7946.7	8080.6	8272.2	8287.9	8563.5	8807.6	8936.2
10°	7550.5	7589.8	7618.7	7686.9	7789.3	7938.9	8146.2	8175.1	8534.6	8936.2	9161.9
12.5°	7387.7	7427.1	7453.4	7542.6	7676.4	7860.1	8093.7	8127.8	8545.1	9085.7	9408.5
15°	7487.5	7519.0	7508.5	7534.7	7623.9	7833.9	8114.7	8148.8	8584.5	9230.1	9652.6
17.5°	7931.0	7957.2	7870.6	7770.9	7728.9	7883.8	8180.3	8217.1	8663.2	9379.7	9901.9
20°	8584.5	8655.3	8466.4	8243.3	8041.2	8062.2	8316.8	8356.2	8773.4	9529.3	10156.5
22.5°	9434.8	9487.3	9256.3	8888.9	8516.2	8324.7	8521.5	8545.1	8938.8	9723.5	10434.7
25°	10434.7	10466.2	10146.0	9673.6	9135.6	8773.4	8802.3	8844.3	9211.7	9943.9	10681.4
27.5°	11405.7	11505.5	11135.4	10558.0	9849.5	9245.8	9188.1	9214.3	9508.3	10067.3	10852.0
30°	12557.9	12550.0	12158.9	11489.7	10581.7	9760.2	9552.9	9547.6	9668.4	10127.6	10975.3
32.5°	13476.4	13584.0	13200.8	12471.2	11418.9	10293.0	9804.8	9794.3	9791.7	10232.6	11159.0
35°	14520.9	14536.7	14185.0	13450.2	12324.3	10962.2	10156.5	10104.0	10043.7	10458.3	11408.4
37.5°	15455.2	15528.7	15205.9	14381.8	13214.0	11657.7	10639.4	10605.3	10421.6	10849.4	11807.3
40°	16184.8	16239.9	16045.7	15261.0	14090.5	12408.3	11253.5	11190.5	10967.5	11489.7	12340.0
42.5°	16423.6	16536.5	16612.6	16226.8	15098.3	13297.9	12009.3	11930.6	11760.0	12460.7	12954.1
45°	16442.0	16620.5	17022.0	17040.4	16111.3	14363.5	12891.2	12836.0	12822.9	13704.7	13817.6
47.5°	16302.9	16484.0	17158.5	17523.3	17014.1	15439.5	14164.0	14077.4	14085.3	15242.6	14786.0
50°	15967.0	16182.2	17001.0	17832.9	17720.1	16557.5	15507.7	15478.8	15641.5	16998.4	15791.1
52.5°	15334.5	15594.3	16838.3	18027.1	18245.0	17520.6	17035.1	16953.8	17365.8	18903.7	16890.8
55°	13584.0	13975.0	16242.5	18134.7	18743.6	18441.8	18410.3	18557.3	19103.2	20982.2	18100.6
57.5°	12670.7	12964.6	14948.7	18153.1	19373.5	19512.6	20016.5	20053.2	21008.5	23189.4	19468.0
60°	12172.1	12431.9	14240.1	18032.4	20252.7	20837.9	21659.3	21790.6	22869.2	25580.2	20885.1
62.5°	11736.4	11959.5	13815.0	17615.1	21244.7	22803.6	23787.7	23850.7	24981.9	28220.4	22284.0
65°	10710.3	10964.8	12959.4	17197.8	22100.2	25260.0	26611.6	26538.1	27231.0	30498.4	23160.5
67.5°	9327.2	9650.0	11361.1	15757.0	22522.8	27944.8	29792.4	29700.6	29451.2	31991.7	23412.5
70°	7561.0	7734.2	9316.7	13266.4	20835.3	29354.1	32304.0	32206.9	30826.4	32188.5	22221.0
71°	6505.9	6776.3	8112.1	11783.6	19431.2	28923.7	32626.8	32600.6	30829.1	31645.3	21323.4
72.5°	5078.3	5243.6	6424.6	9130.4	16515.5	26477.8	31829.0	31928.7	30159.8	30136.2	19473.2
75°	3212.3	3285.8	4031.1	5374.8	9062.1	18751.5	27170.6	27440.9	26779.6	24666.9	14481.6
77.5°	1866.0	1960.4	2414.5	3167.7	3915.6	10177.5	19441.7	19735.6	18607.1	13581.4	5928.6
80°	1086.5	1191.5	1590.4	1839.7	1797.7	3776.5	9899.3	10400.6	8057.0	3430.1	1663.9
82.5°	603.6	674.5	1118.0	1120.6	957.9	1233.5	3115.2	3259.5	2299.0	1383.1	679.7
85°	438.3	496.0	721.7	653.5	459.3	530.1	1083.9	1136.4	929.0	582.6	220.5
87.5°	154.8	220.5	396.3	314.9	126.0	110.2	312.3	254.6	236.2	162.7	49.9
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°	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5	8668.5
2.5°	8715.7	8721.0	8694.7	8647.5	8600.2	8539.9	8471.6	8419.1	8395.5	8392.9	8390.3
5°	8810.2	8823.3	8723.6	8576.6	8413.9	8214.4	8043.8	7849.6	7799.8	7721.0	7744.7
7.5°	8962.4	8954.5	8757.7	8445.4	8064.8	7642.3	7285.4	7078.1	6862.9	6802.5	6805.1
10°	9180.2	9130.4	8757.7	8177.7	7542.6	6915.3	6416.7	6101.8	5931.2	5789.5	5737.0
12.5°	9411.2	9285.2	8673.7	7802.4	6870.7	6101.8	5566.4	5141.2	5031.0	4915.5	4918.2
15°	9631.6	9421.7	8508.4	7274.9	6146.4	5233.1	4713.5	4458.9	4424.8	4437.9	4435.3
17.5°	9831.1	9518.8	8256.4	6687.0	5301.3	4487.8	4212.2	4230.6	4322.4	4388.0	4395.9
20°	10033.2	9576.5	7881.1	5899.7	4503.5	4036.4	4046.9	4191.2	4330.3	4419.5	4432.6
22.5°	10224.7	9602.8	7440.2	5138.6	3926.1	3844.8	3999.6	4154.5	4290.9	4377.5	4390.7
25°	10350.7	9542.4	6815.6	4343.4	3642.7	3776.5	3939.3	4070.5	4186.0	4275.2	4296.2
27.5°	10384.8	9348.2	6041.4	3700.4	3511.5	3710.9	3860.5	3957.6	4046.9	4130.8	4146.6
30°	10366.5	9062.1	5191.1	3322.5	3435.4	3634.8	3750.3	3821.2	3928.8	3994.4	4007.5
32.5°	10337.6	8728.8	4304.1	3120.4	3372.4	3564.0	3632.2	3695.2	3692.6	3666.3	3684.7
35°	10348.1	8329.9	3585.0	2999.7	3317.3	3511.5	3569.2	3490.5	3264.8	3254.3	3243.8
37.5°	10403.2	7936.2	3062.7	2915.7	3288.4	3503.6	3535.1	3172.9	2973.5	2881.6	2858.0
40°	10544.9	7477.0	2718.9	2852.7	3285.8	3564.0	3380.3	3012.8	2629.7	2451.2	2438.1
42.5°	10733.9	7025.6	2508.9	2813.4	3317.3	3655.8	3317.3	2787.1	2369.9	2264.9	2249.1
45°	11014.7	6508.6	2393.5	2795.0	3364.5	3689.9	3296.3	2621.8	2264.9	2180.9	2180.9
47.5°	11332.2	6015.2	2330.5	2781.9	3424.9	3666.3	3109.9	2569.3	2215.0	2225.5	2275.4
50°	11647.2	5587.4	2283.2	2753.0	3477.4	3653.2	3033.8	2566.7	2228.1	2362.0	2451.2
52.5°	12012.0	5285.6	2225.5	2705.8	3477.4	3569.2	3010.2	2619.2	2264.9	2304.2	2343.6
55°	12452.9	5191.1	2152.0	2603.4	3414.4	3359.3	2997.1	2695.3	2291.1	2199.3	2215.0
57.5°	13035.5	5343.3	2081.2	2474.8	3270.0	3141.4	2991.8	2716.3	2230.8	2154.6	2138.9
60°	13712.6	5645.1	2060.2	2343.6	3073.2	2955.1	2960.3	2655.9	2146.8	2068.0	2081.2
62.5°	14187.6	5826.2	2047.0	2243.9	2858.0	2750.4	2884.2	2582.4	2110.0	2041.8	2054.9
65°	14187.6	5605.8	1926.3	2091.7	2579.8	2503.7	2792.4	2490.6	2062.8	1984.1	1970.9
67.5°	13649.6	4962.8	1742.6	1863.3	2272.7	2222.9	2663.8	2380.3	1991.9	1931.6	1900.1
70°	12248.2	3763.4	1511.7	1595.6	1884.3	1928.9	2498.4	2230.8	1873.8	1800.4	1753.1
71°	11631.4	3277.9	1414.6	1459.2	1734.7	1800.4	2419.7	2167.8	1821.3	1716.4	1632.4
72.5°	10442.6	2760.9	1267.6	1286.0	1482.8	1600.9	2254.4	2047.0	1721.6	1572.0	1477.5
75°	7933.6	2015.6	1020.9	1010.4	1097.0	1270.2	1908.0	1824.0	1509.0	1307.0	1251.8
77.5°	3427.5	1097.0	763.7	771.6	745.3	963.2	1501.2	1566.8	1293.8	1062.9	1013.0
80°	1039.3	632.5	522.3	532.8	498.6	645.6	1057.6	1228.2	1039.3	826.7	758.5
82.5°	532.8	377.9	356.9	351.7	317.6	364.8	640.4	839.8	742.7	517.0	456.6
85°	230.9	202.1	175.8	170.6	149.6	131.2	228.3	419.9	393.7	288.7	275.6
87.5°	57.7	52.5	34.1	31.5	18.4	2.6	0.0	0.0	0.0	0.0	0.0
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)