

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: P459175

Luminaire Tested: **GALN-SA6C-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459175  
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-SA6C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 39742 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

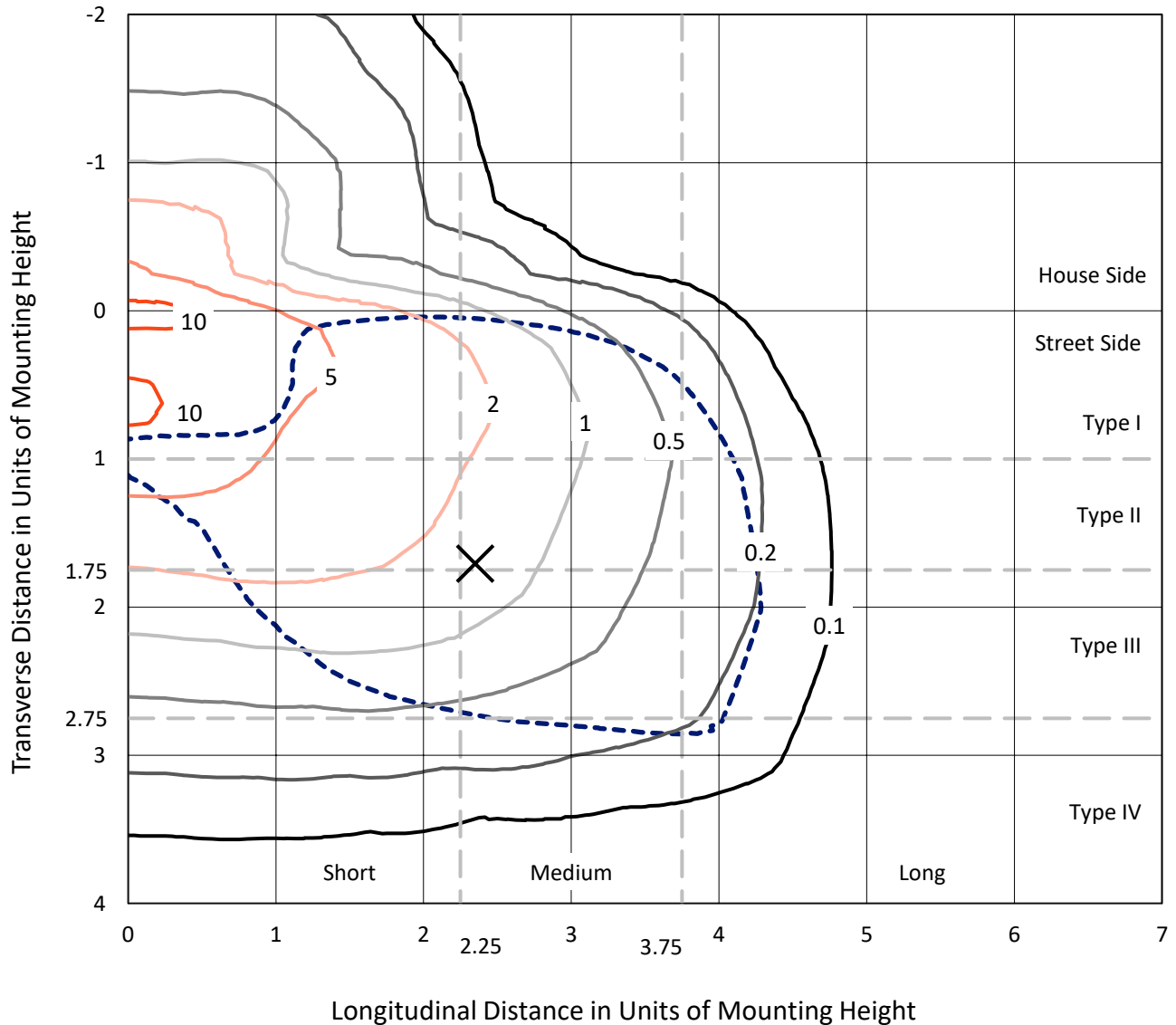
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

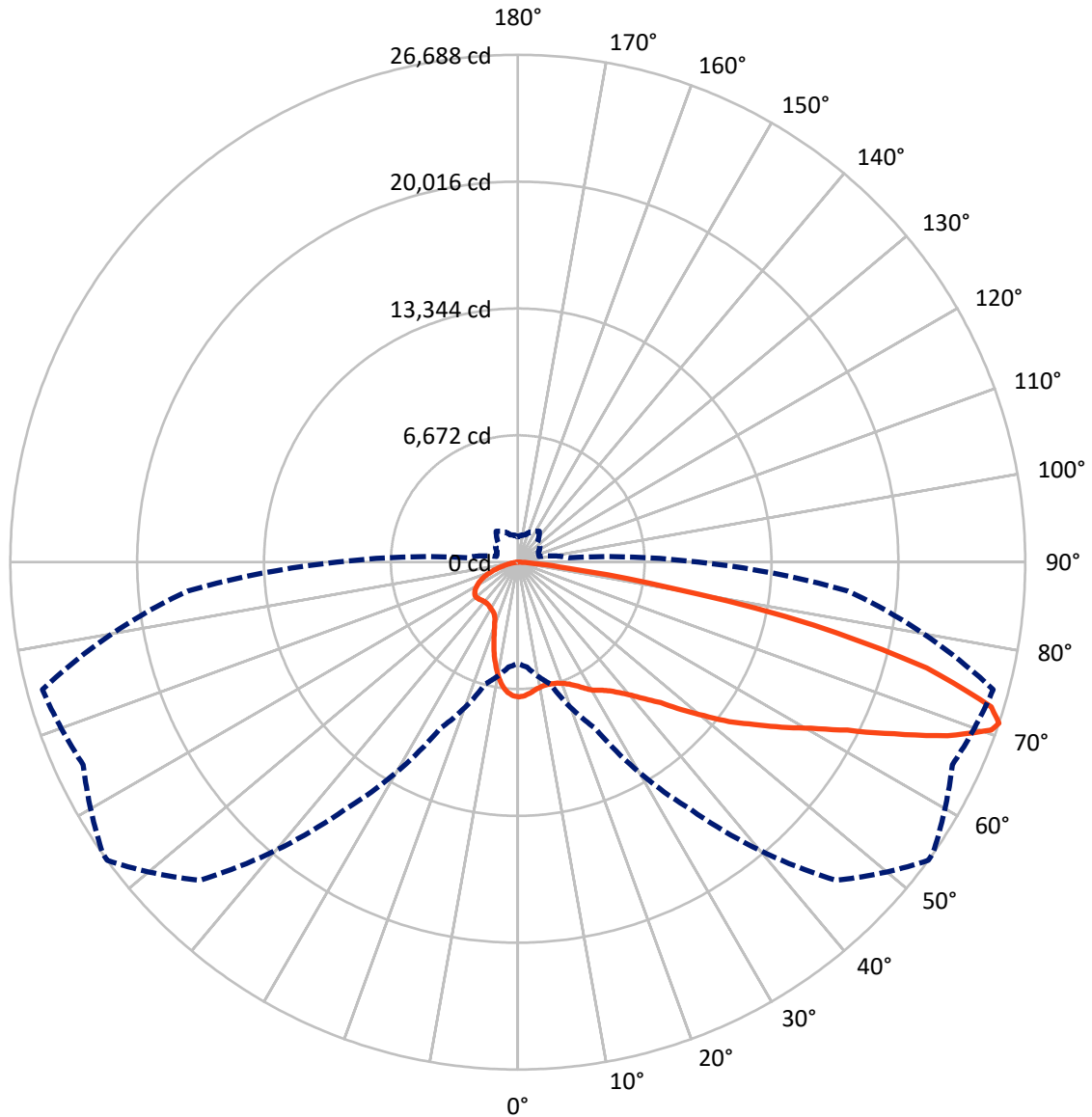
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - 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	7175.2	0.0	7175.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	32566.8	0.0	32566.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	39742.0	0.0	39742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.9	1.6
10°-20°	1668.5	4.2
20°-30°	2778.1	7.0
30°-40°	4107.9	10.3
40°-50°	5786.1	14.6
50°-60°	7747.8	19.5
60°-70°	9765.5	24.6
70°-80°	6669.8	16.8
80°-90°	586.6	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°	39742.0	100.0
0°-180°	39742.0	100.0

**Coefficient of Utilization**



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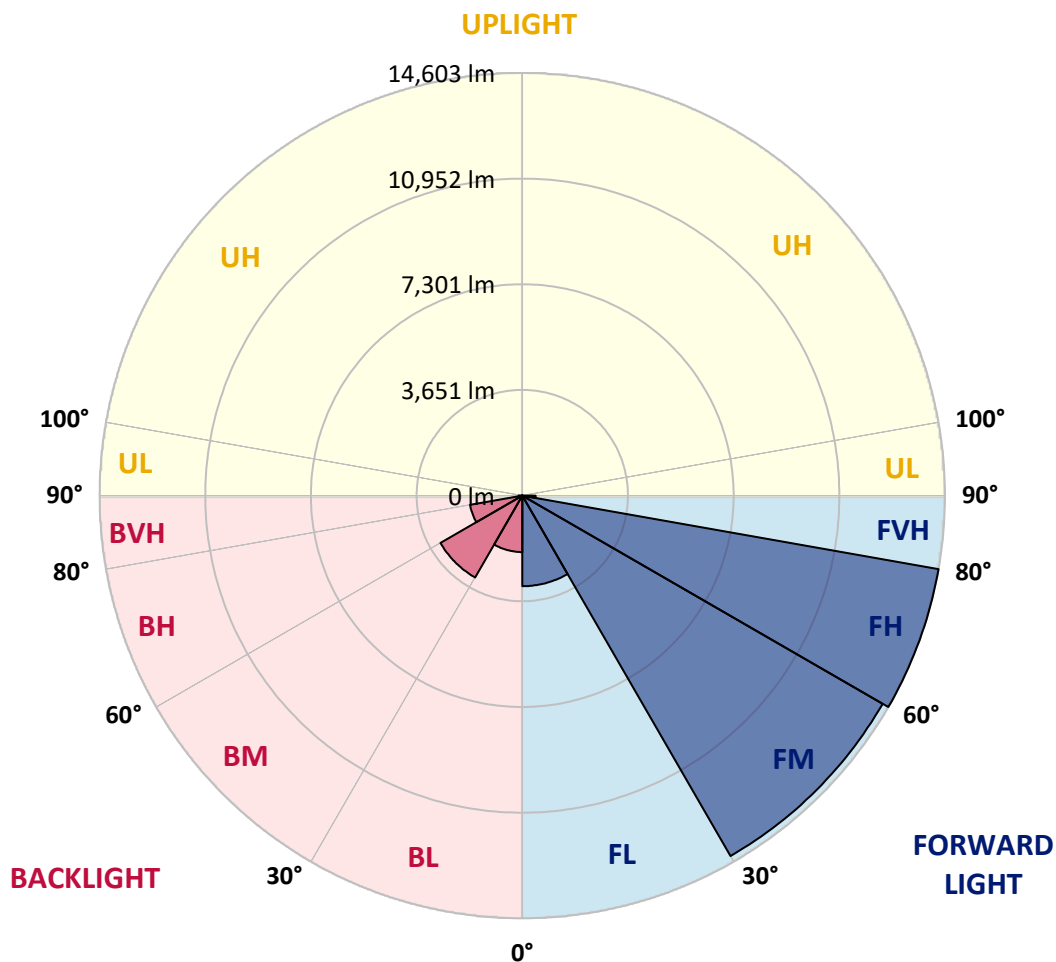
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3128.3	7.9			
FM	(30°-60°)	14377.2	36.2			
FH	(60°-80°)	14602.8	36.7			G5
FVH	(80°-90°)	458.5	1.2			G3/500
BL	(0°-30°)	1950.1	4.9	B3/2500		
BM	(30°-60°)	3264.5	8.2	B3/5000		
BH	(60°-80°)	1832.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	128.1	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°	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6
2.5°	6850.1	6882.3	6890.9	6912.4	6957.5	6994.0	7030.5	7026.2	7077.7	7099.1	7118.5
5°	6545.3	6553.9	6586.1	6629.0	6708.4	6809.3	6908.1	6910.2	7036.9	7137.8	7187.2
7.5°	6322.0	6349.9	6371.4	6416.5	6500.2	6609.7	6766.4	6779.3	7004.7	7204.3	7309.5
10°	6176.1	6208.3	6231.9	6287.7	6371.4	6493.8	6663.4	6687.0	6981.1	7309.5	7494.1
12.5°	6043.0	6075.2	6096.6	6169.6	6279.1	6429.4	6620.4	6648.3	6989.7	7431.9	7695.9
15°	6124.5	6150.3	6141.7	6163.2	6236.2	6407.9	6637.6	6665.5	7021.9	7550.0	7895.6
17.5°	6487.3	6508.8	6438.0	6356.4	6322.0	6448.7	6691.3	6721.3	7086.3	7672.3	8099.5
20°	7021.9	7079.8	6925.3	6742.8	6577.5	6594.7	6802.9	6835.1	7176.4	7794.7	8307.7
22.5°	7717.4	7760.3	7571.4	7270.9	6966.1	6809.3	6970.3	6989.7	7311.7	7953.5	8535.3
25°	8535.3	8561.1	8299.2	7912.7	7472.7	7176.4	7200.0	7234.4	7534.9	8133.9	8737.1
27.5°	9329.6	9411.1	9108.5	8636.2	8056.6	7562.8	7515.6	7537.1	7777.5	8234.8	8876.6
30°	10272.0	10265.5	9945.7	9398.3	8655.5	7983.6	7814.0	7809.7	7908.5	8284.1	8977.5
32.5°	11023.3	11111.3	10797.9	10201.1	9340.3	8419.4	8020.1	8011.5	8009.4	8370.0	9127.8
35°	11877.7	11890.6	11602.9	11001.9	10080.9	8966.8	8307.7	8264.8	8215.4	8554.6	9331.7
37.5°	12641.9	12702.0	12438.0	11763.9	10808.7	9535.7	8702.7	8674.8	8524.6	8874.5	9658.0
40°	13238.7	13283.8	13124.9	12483.1	11525.7	10149.6	9205.1	9153.5	8971.1	9398.3	10093.8
42.5°	13434.1	13526.4	13588.6	13273.1	12350.0	10877.3	9823.3	9758.9	9619.4	10192.5	10596.1
45°	13449.1	13595.1	13923.5	13938.5	13178.6	11748.9	10544.6	10499.5	10488.8	11210.1	11302.4
47.5°	13335.3	13483.4	14035.1	14333.5	13917.1	12629.1	11585.8	11514.9	11521.4	12468.1	12094.5
50°	13060.5	13236.6	13906.3	14586.8	14494.5	13543.6	12684.9	12661.3	12794.4	13904.2	12916.7
52.5°	12543.2	12755.7	13773.2	14745.7	14923.9	14331.4	13934.3	13867.7	14204.7	15462.7	13816.2
55°	11111.3	11431.2	13285.9	14833.7	15331.8	15084.9	15059.1	15179.3	15625.9	17162.9	14805.8
57.5°	10364.3	10604.7	12227.6	14848.7	15847.0	15960.7	16372.9	16403.0	17184.4	18968.3	15924.2
60°	9956.4	10168.9	11648.0	14750.0	16566.1	17044.8	17716.7	17824.1	18706.4	20923.9	17083.5
62.5°	9600.1	9782.5	11300.2	14408.7	17377.6	18652.7	19457.7	19509.2	20434.5	23083.5	18227.7
65°	8760.7	8968.9	10600.4	14067.3	18077.4	20662.0	21767.6	21707.5	22274.2	24946.8	18944.7
67.5°	7629.4	7893.4	9293.1	12888.8	18423.0	22858.1	24369.4	24294.2	24090.3	26168.3	19150.7
70°	6184.7	6326.3	7620.8	10851.6	17042.7	24010.9	26423.8	26344.3	25215.2	26329.3	18176.1
71°	5321.7	5542.8	6635.5	9638.7	15894.2	23658.8	26687.8	26666.3	25217.3	25884.9	17442.0
72.5°	4153.9	4289.1	5255.1	7468.4	13509.2	21658.1	26035.2	26116.8	24669.9	24650.6	15928.5
75°	2627.6	2687.7	3297.3	4396.4	7412.6	15338.2	22224.8	22445.9	21905.0	20176.9	11845.5
77.5°	1526.3	1603.6	1975.0	2591.1	3202.9	8324.9	15902.8	16143.2	15220.1	11109.2	4849.4
80°	888.7	974.6	1300.9	1504.8	1470.5	3089.1	8097.4	8507.4	6590.4	2805.7	1361.0
82.5°	493.7	551.7	914.5	916.6	783.5	1009.0	2548.1	2666.2	1880.5	1131.3	556.0
85°	358.5	405.7	590.3	534.5	375.7	433.6	886.6	929.5	759.9	476.6	180.3
87.5°	126.7	180.3	324.2	257.6	103.0	90.2	255.5	208.2	193.2	133.1	40.8
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°	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6	7090.6
2.5°	7129.2	7133.5	7112.0	7073.4	7034.7	6985.4	6929.6	6886.6	6867.3	6865.2	6863.0
5°	7206.5	7217.2	7135.6	7015.4	6882.3	6719.2	6579.6	6420.8	6380.0	6315.6	6334.9
7.5°	7331.0	7324.6	7163.5	6908.1	6596.8	6251.2	5959.2	5789.7	5613.6	5564.3	5566.4
10°	7509.2	7468.4	7163.5	6689.1	6169.6	5656.6	5248.7	4991.1	4851.5	4735.6	4692.7
12.5°	7698.1	7595.0	7094.9	6382.1	5620.1	4991.1	4553.2	4205.4	4115.2	4020.8	4022.9
15°	7878.4	7706.7	6959.6	5950.7	5027.6	4280.5	3855.5	3647.2	3619.3	3630.1	3627.9
17.5°	8041.6	7786.1	6753.5	5469.8	4336.3	3670.9	3445.5	3460.5	3535.6	3589.3	3595.7
20°	8206.8	7833.3	6446.6	4825.8	3683.7	3301.6	3310.2	3428.3	3542.1	3615.0	3625.8
22.5°	8363.6	7854.8	6085.9	4203.2	3211.5	3144.9	3271.6	3398.2	3509.9	3580.7	3591.4
25°	8466.6	7805.4	5575.0	3552.8	2979.6	3089.1	3222.2	3329.5	3424.0	3497.0	3514.2
27.5°	8494.5	7646.6	4941.7	3026.9	2872.3	3035.4	3157.8	3237.2	3310.2	3378.9	3391.8
30°	8479.5	7412.6	4246.2	2717.7	2810.0	2973.2	3067.6	3125.6	3213.6	3267.3	3278.0
32.5°	8455.9	7139.9	3520.6	2552.4	2758.5	2915.2	2971.0	3022.6	3020.4	2998.9	3014.0
35°	8464.5	6813.6	2932.4	2453.7	2713.4	2872.3	2919.5	2855.1	2670.5	2661.9	2653.3
37.5°	8509.5	6491.6	2505.2	2385.0	2689.8	2865.8	2891.6	2595.4	2432.2	2357.1	2337.8
40°	8625.5	6116.0	2224.0	2333.5	2687.7	2915.2	2765.0	2464.4	2151.0	2005.0	1994.3
42.5°	8780.0	5746.7	2052.2	2301.3	2713.4	2990.4	2713.4	2279.8	1938.5	1852.6	1839.7
45°	9009.7	5323.8	1957.8	2286.2	2752.1	3018.3	2696.3	2144.6	1852.6	1783.9	1783.9
47.5°	9269.5	4920.2	1906.3	2275.5	2801.4	2998.9	2543.8	2101.6	1811.8	1820.4	1861.2
50°	9527.1	4570.3	1867.6	2251.9	2844.4	2988.2	2481.6	2099.5	1822.6	1932.0	2005.0
52.5°	9825.5	4323.5	1820.4	2213.3	2844.4	2919.5	2462.3	2142.4	1852.6	1884.8	1917.0
55°	10186.1	4246.2	1760.3	2129.5	2792.9	2747.8	2451.5	2204.7	1874.1	1798.9	1811.8
57.5°	10662.7	4370.7	1702.3	2024.3	2674.8	2569.6	2447.2	2221.8	1824.7	1762.4	1749.6
60°	11216.5	4617.6	1685.2	1917.0	2513.8	2417.2	2421.5	2172.5	1756.0	1691.6	1702.3
62.5°	11605.1	4765.7	1674.4	1835.4	2337.8	2249.7	2359.2	2112.4	1725.9	1670.1	1680.9
65°	11605.1	4585.4	1575.7	1710.9	2110.2	2048.0	2284.1	2037.2	1687.3	1622.9	1612.2
67.5°	11165.0	4059.4	1425.4	1524.2	1859.0	1818.3	2178.9	1947.1	1629.3	1580.0	1554.2
70°	10018.7	3078.4	1236.5	1305.2	1541.3	1577.8	2043.7	1824.7	1532.7	1472.6	1434.0
71°	9514.2	2681.2	1157.1	1193.6	1419.0	1472.6	1979.3	1773.2	1489.8	1403.9	1335.2
72.5°	8541.7	2258.3	1036.9	1051.9	1212.9	1309.5	1844.0	1674.4	1408.2	1285.9	1208.6
75°	6489.5	1648.7	835.1	826.5	897.3	1039.0	1560.7	1492.0	1234.4	1069.1	1024.0
77.5°	2803.6	897.3	624.7	631.1	609.7	787.8	1227.9	1281.6	1058.3	869.4	828.6
80°	850.1	517.4	427.2	435.8	407.9	528.1	865.1	1004.7	850.1	676.2	620.4
82.5°	435.8	309.1	292.0	287.7	259.8	298.4	523.8	686.9	607.5	422.9	373.5
85°	188.9	165.3	143.8	139.5	122.4	107.3	186.8	343.5	322.0	236.1	225.4
87.5°	47.2	42.9	27.9	25.8	15.0	2.1	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)