

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: P456501

Luminaire Tested: **GALN-SA7D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456501  
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-SA7D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 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: 49351 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

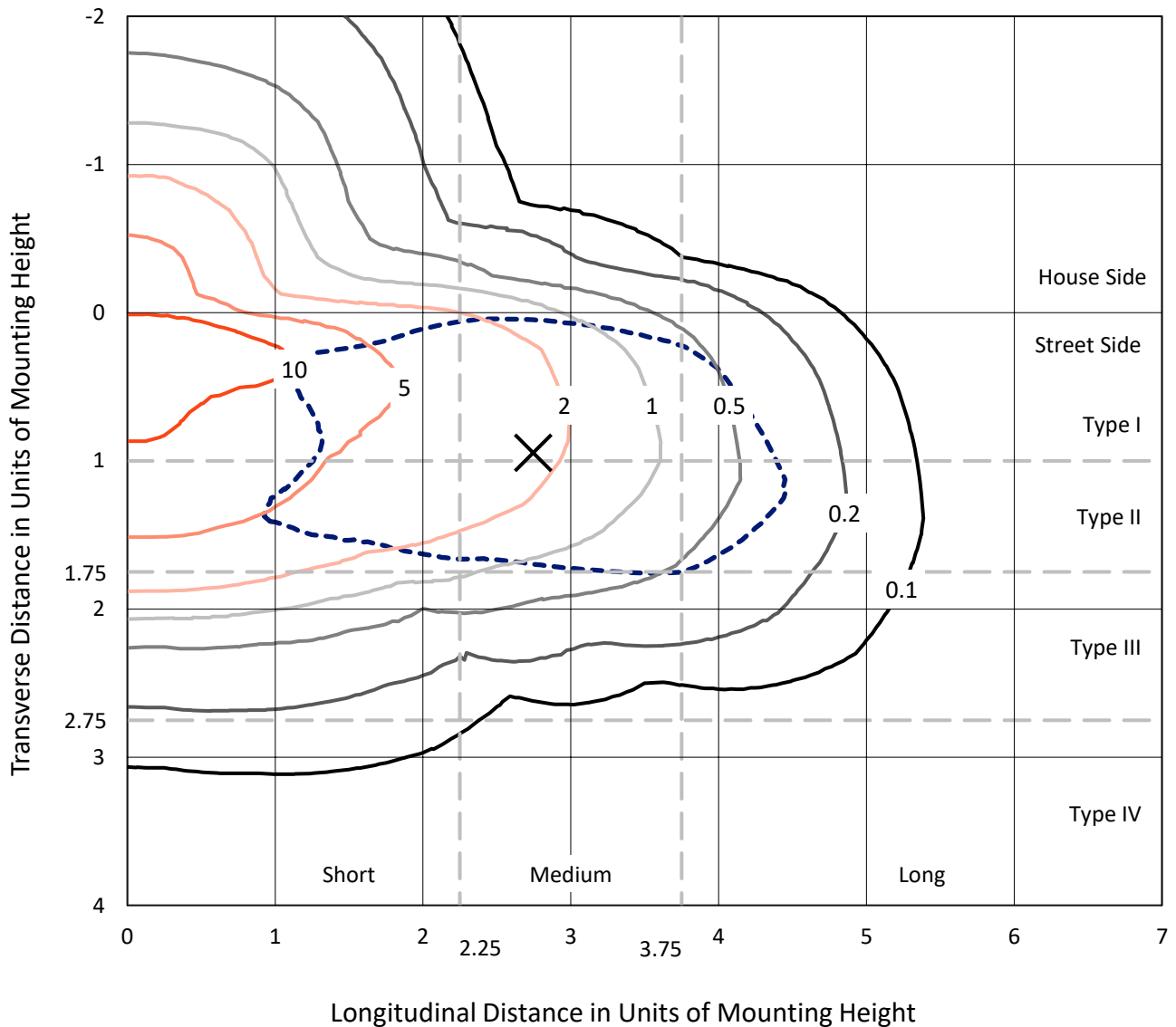
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

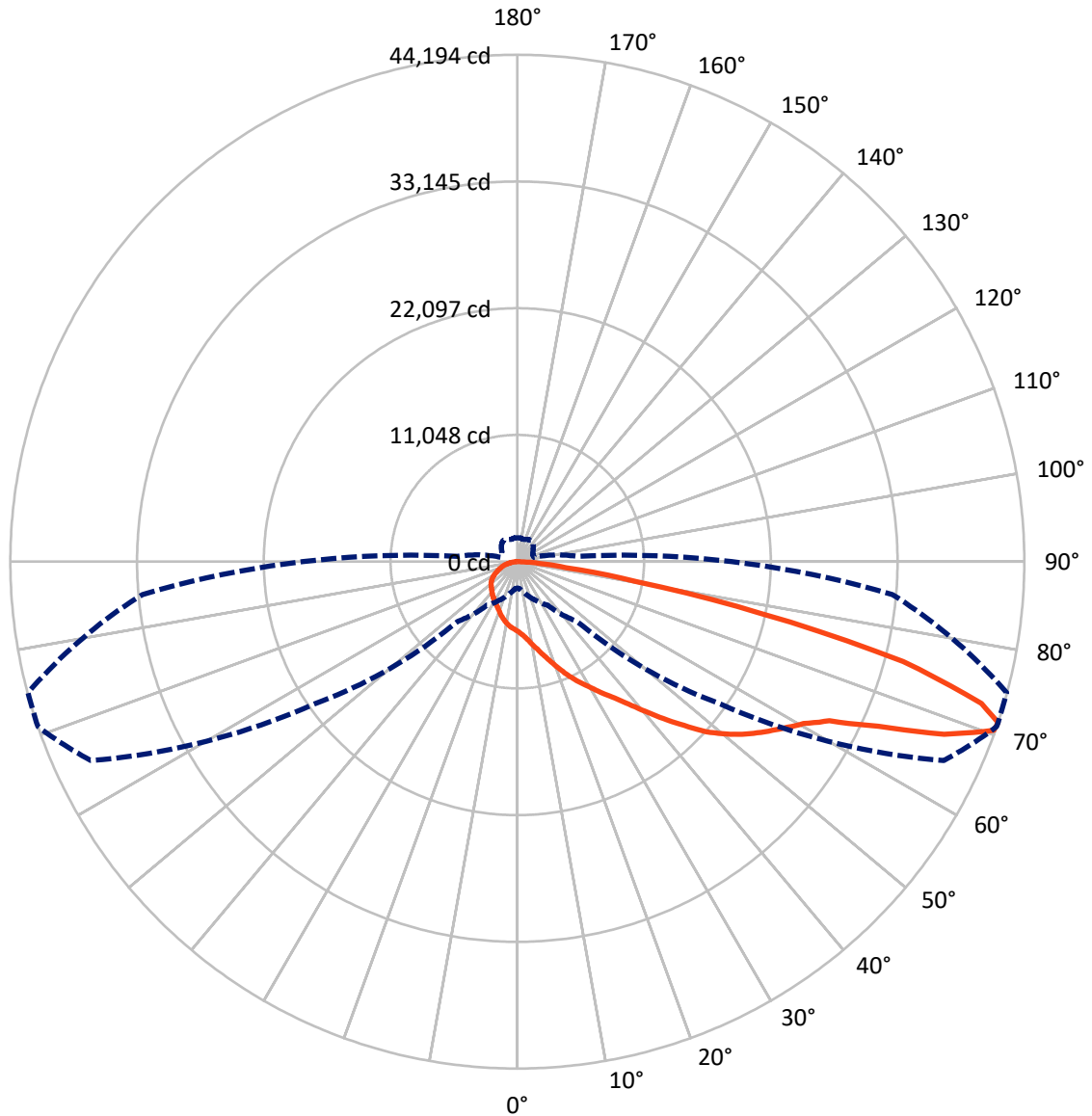
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	8875.6	0.0	8875.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	40475.3	0.0	40475.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	49351.0	0.0	49351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.2	1.2
10°-20°	1975.8	4.0
20°-30°	3452.9	7.0
30°-40°	5135.8	10.4
40°-50°	7566.9	15.3
50°-60°	10593.8	21.5
60°-70°	11848.8	24.0
70°-80°	7237.7	14.7
80°-90°	931.0	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°	49351.0	100.0
0°-180°	49351.0	100.0

**Coefficient of Utilization**



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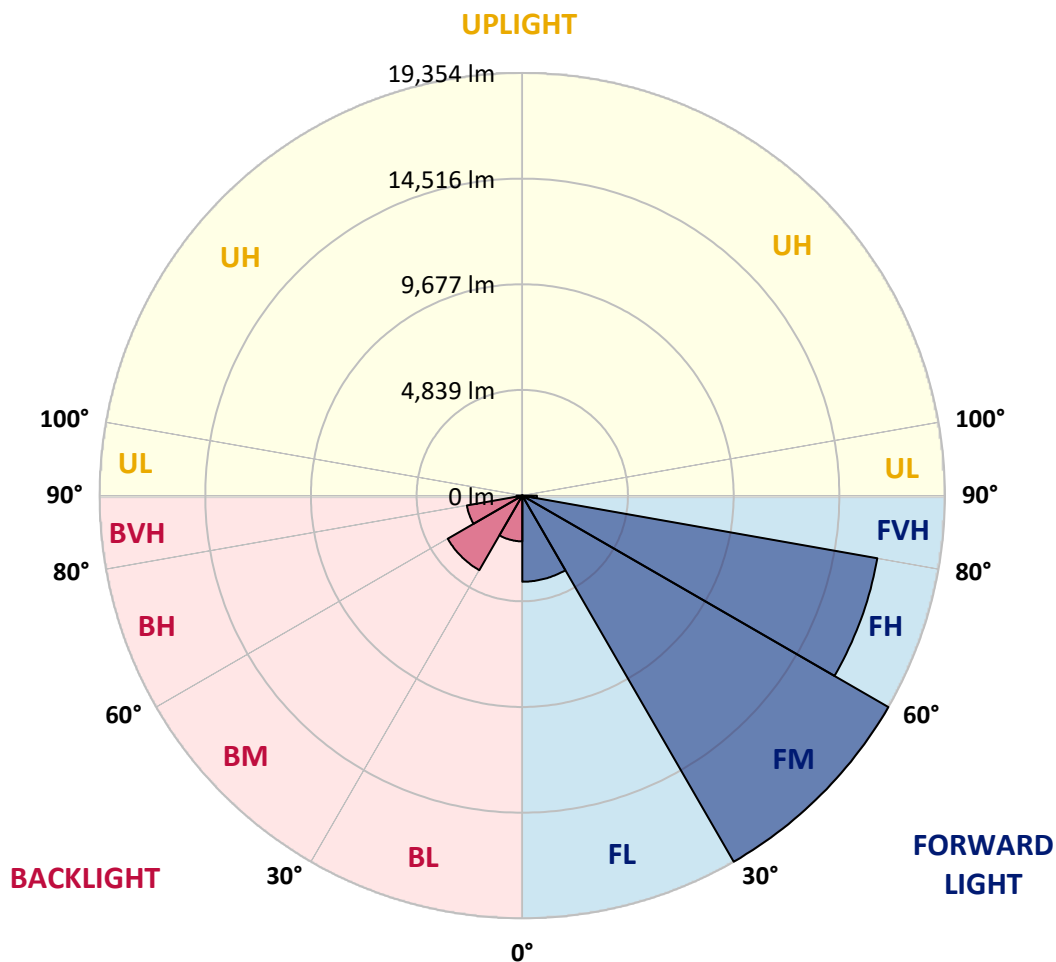
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3943.2	8.0			
FM	(30°-60°)	19354.5	39.2			
FH	(60°-80°)	16507.8	33.4			G5
FVH	(80°-90°)	669.9	1.4			G4/750
BL	(0°-30°)	2093.7	4.2	B3/2500		
BM	(30°-60°)	3942.0	8.0	B3/5000		
BH	(60°-80°)	2578.8	5.2	B4/5000		G4/5000
BVH	(80°-90°)	261.1	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°	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9
2.5°	6724.1	6691.6	6694.3	6648.2	6588.5	6523.4	6431.2	6349.8	6284.7	6246.7	6135.5
5°	7451.1	7418.5	7377.8	7277.5	7234.1	7074.0	6870.6	6686.1	6545.1	6466.4	6244.0
7.5°	8039.6	8031.5	8020.7	7963.7	7852.5	7630.1	7456.5	7136.4	6927.6	6778.4	6398.6
10°	8403.1	8416.7	8424.8	8435.7	8389.6	8272.9	8034.2	7630.1	7364.3	7174.4	6599.3
12.5°	8587.6	8601.1	8647.2	8747.6	8810.0	8796.4	8601.1	8205.1	7838.9	7589.4	6813.6
15°	8701.5	8723.2	8804.6	8937.5	9146.3	9279.2	9184.3	8818.1	8416.7	8121.0	7068.6
17.5°	8826.3	8850.7	8940.2	9130.0	9404.0	9691.5	9794.6	9480.0	9043.2	8690.6	7353.4
20°	8896.8	8929.3	9056.8	9306.4	9626.4	10044.1	10385.9	10220.4	9743.1	9352.5	7681.6
22.5°	9010.7	9037.8	9146.3	9412.1	9794.6	10318.1	10977.2	10942.0	10521.5	10017.0	8042.4
25°	9319.9	9363.3	9417.6	9577.6	9946.5	10597.5	11468.2	11712.3	11275.6	10711.4	8373.3
27.5°	9903.1	9938.4	9935.6	9957.3	10166.2	10838.9	11894.0	12474.5	12024.2	11413.9	8693.3
30°	10567.6	10581.2	10592.0	10543.2	10589.3	11085.7	12284.6	13228.5	12778.3	12135.4	8972.7
32.5°	11375.9	11403.1	11310.8	11186.1	11148.1	11451.9	12607.4	13982.6	13670.7	12867.8	9249.4
35°	12330.7	12401.2	12214.1	11994.4	11839.8	11978.1	13041.4	14752.9	14584.7	13803.6	9615.6
37.5°	13421.1	13507.9	13334.3	12903.0	12683.3	12721.3	13608.3	15705.0	15740.2	14869.6	10160.8
40°	14313.5	14427.4	14432.9	13822.6	13488.9	13532.3	14327.1	16730.3	17134.4	16187.8	10803.6
42.5°	14902.1	15013.3	15129.9	14771.9	14422.0	14668.8	15165.2	17842.4	18702.2	17788.1	11701.4
45°	15547.7	15648.0	15713.1	15550.4	15355.1	15995.2	16176.9	19025.0	20373.1	19575.6	12683.3
47.5°	16296.3	16407.5	16469.9	16315.3	16242.0	17158.8	17267.3	20129.0	22157.9	21311.6	13768.3
50°	17294.5	17378.6	17346.0	17248.4	17232.1	18051.2	18314.3	21162.4	23630.7	23180.4	14894.0
52.5°	18536.8	18637.1	18672.4	18534.1	18471.7	18688.7	19157.9	22103.6	24970.7	24786.2	16095.6
55°	19288.1	19448.1	19985.2	20202.2	20351.4	19513.2	20066.6	23142.5	26172.3	26478.8	17386.7
57.5°	18325.2	18531.3	19732.9	20817.9	22220.2	21574.7	21355.0	24227.4	27373.9	28119.8	18932.8
60°	15976.2	16022.3	17571.1	19570.2	22391.1	24224.7	24043.0	25952.6	28675.8	29774.4	20969.8
62.5°	11083.0	11180.6	13011.5	16201.4	20280.9	25179.5	28616.2	28930.8	30542.0	32250.8	23956.2
65°	5715.1	5587.6	7255.8	10182.5	15290.0	22911.9	32321.3	34407.2	34588.9	36124.2	28160.5
67.5°	3518.0	3575.0	4356.2	5945.7	9040.5	16651.6	31933.5	41098.8	40141.3	40879.1	32063.7
70°	2641.9	2712.4	3249.5	4068.6	5511.7	9520.6	25681.3	42720.8	44058.0	43868.2	33251.7
71°	2297.4	2370.7	2929.4	3702.5	4630.1	7348.0	21637.1	41022.8	44193.7	44161.1	32804.2
72.5°	1958.4	2004.5	2441.2	3135.6	3903.2	5150.9	16255.6	36791.4	42308.5	43390.8	31206.5
75°	1537.9	1573.2	1768.5	2392.4	3073.2	3162.7	8723.2	27582.7	34749.0	36810.4	25979.7
77.5°	1253.1	1277.6	1377.9	1776.6	2370.7	2240.5	4575.9	17953.6	21770.0	23845.0	15303.5
80°	995.5	1022.6	1082.3	1204.3	1776.6	1597.6	2183.5	9097.5	10516.1	10494.4	6108.4
82.5°	773.0	781.2	851.7	884.3	1215.2	1133.8	1182.6	3851.7	4266.7	4407.7	2205.2
85°	488.2	512.6	754.1	678.1	726.9	664.5	583.2	1529.8	1885.1	1858.0	881.5
87.5°	149.2	157.3	255.0	287.5	322.8	290.2	214.3	450.3	550.6	596.7	219.7
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°	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9	6056.9
2.5°	6092.1	6062.3	5956.5	5869.7	5788.3	5698.8	5622.9	5601.2	5582.2	5574.0	5571.3
5°	6149.1	6059.6	5850.7	5679.8	5544.2	5419.4	5340.8	5305.5	5270.3	5270.3	5281.1
7.5°	6230.5	6067.7	5744.9	5490.0	5319.1	5202.4	5145.5	5140.1	5148.2	5156.3	5159.0
10°	6320.0	6062.3	5590.3	5273.0	5121.1	5066.8	5069.5	5115.6	5159.0	5191.6	5197.0
12.5°	6406.8	6029.7	5408.6	5069.5	4971.9	4982.7	5058.7	5161.8	5245.8	5292.0	5294.7
15°	6504.4	5978.2	5188.9	4877.0	4844.4	4928.5	5069.5	5226.9	5354.3	5430.3	5438.4
17.5°	6585.8	5891.4	4958.3	4689.8	4730.5	4885.1	5080.4	5283.8	5438.4	5533.4	5549.6
20°	6678.0	5780.2	4719.6	4510.8	4627.4	4836.3	5058.7	5278.4	5438.4	5530.6	5552.3
22.5°	6751.2	5622.9	4491.8	4364.3	4535.2	4776.6	4985.5	5161.8	5292.0	5340.8	5373.3
25°	6781.1	5424.9	4277.5	4245.0	4462.0	4678.9	4820.0	4920.4	4961.0	4955.6	4969.2
27.5°	6764.8	5197.0	4093.1	4150.0	4369.7	4527.0	4597.6	4589.4	4516.2	4448.4	4480.9
30°	6697.0	4925.8	3938.5	4052.4	4250.4	4337.2	4326.3	4220.5	4082.2	3954.7	3962.9
32.5°	6574.9	4632.8	3794.7	3941.2	4082.2	4120.2	4046.9	3908.6	3710.6	3545.1	3520.7
35°	6471.9	4353.5	3667.2	3813.7	3914.0	3895.1	3824.5	3645.5	3466.5	3320.0	3295.6
37.5°	6455.6	4114.8	3545.1	3669.9	3726.9	3699.8	3613.0	3461.1	3396.0	3284.8	3271.2
40°	6542.4	3946.6	3420.4	3518.0	3545.1	3523.4	3428.5	3341.7	3401.4	3374.3	3374.3
42.5°	6778.4	3857.1	3309.2	3366.1	3387.8	3404.1	3336.3	3263.1	3336.3	3211.5	3170.8
45°	7152.7	3859.8	3208.8	3216.9	3282.0	3339.0	3292.9	3184.4	3146.4	2896.9	2848.1
47.5°	7703.3	3952.0	3127.4	3075.9	3192.5	3287.5	3222.4	3065.0	2896.9	2731.4	2701.6
50°	8346.2	4117.5	3054.2	2929.4	3073.2	3222.4	3173.5	2989.1	2815.5	2715.1	2696.2
52.5°	9059.5	4326.3	2964.7	2766.7	2926.7	3192.5	3184.4	2978.3	2739.6	2671.7	2655.5
55°	9941.1	4532.5	2853.5	2576.8	2796.5	3168.1	3154.6	2888.7	2723.3	2674.5	2669.0
57.5°	10966.4	4830.8	2693.4	2384.2	2647.3	3067.8	3037.9	2834.5	2669.0	2633.8	2631.1
60°	12618.2	5294.7	2465.6	2207.9	2495.4	2891.5	2929.4	2742.3	2582.2	2574.1	2571.4
62.5°	14790.9	5945.7	2229.6	2026.2	2319.1	2663.6	2772.1	2617.5	2490.0	2530.7	2536.1
65°	17790.8	6493.6	1985.5	1871.6	2123.8	2443.9	2622.9	2500.9	2386.9	2465.6	2465.6
67.5°	19746.5	6504.4	1763.1	1711.5	1925.8	2259.5	2465.6	2362.5	2254.0	2386.9	2392.4
70°	19339.6	5698.8	1578.6	1543.4	1733.2	2061.4	2292.0	2210.6	2085.9	2205.2	2161.8
71°	18683.2	5251.3	1505.4	1478.3	1657.3	1966.5	2210.6	2142.8	2018.0	2096.7	2072.3
72.5°	17636.2	4559.6	1386.1	1391.5	1543.4	1847.2	2096.7	2026.2	1901.4	1944.8	1936.7
75°	14907.5	3981.9	1185.3	1209.7	1326.4	1643.7	1868.9	1814.6	1687.1	1687.1	1679.0
77.5°	9319.9	2783.0	984.6	998.2	1125.7	1407.8	1605.8	1559.6	1437.6	1396.9	1386.1
80°	3477.3	1437.6	770.3	786.6	865.3	1109.4	1329.1	1285.7	1160.9	1114.8	1071.4
82.5°	1315.5	721.5	566.9	553.3	637.4	846.3	1041.6	990.0	892.4	781.2	748.6
85°	496.4	358.0	347.2	336.3	374.3	501.8	645.6	634.7	531.6	453.0	444.8
87.5°	130.2	116.6	135.6	100.4	105.8	94.9	97.6	40.7	19.0	8.1	5.4
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)