

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: P531698

Luminaire Tested: **GALN-SA7A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24332 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

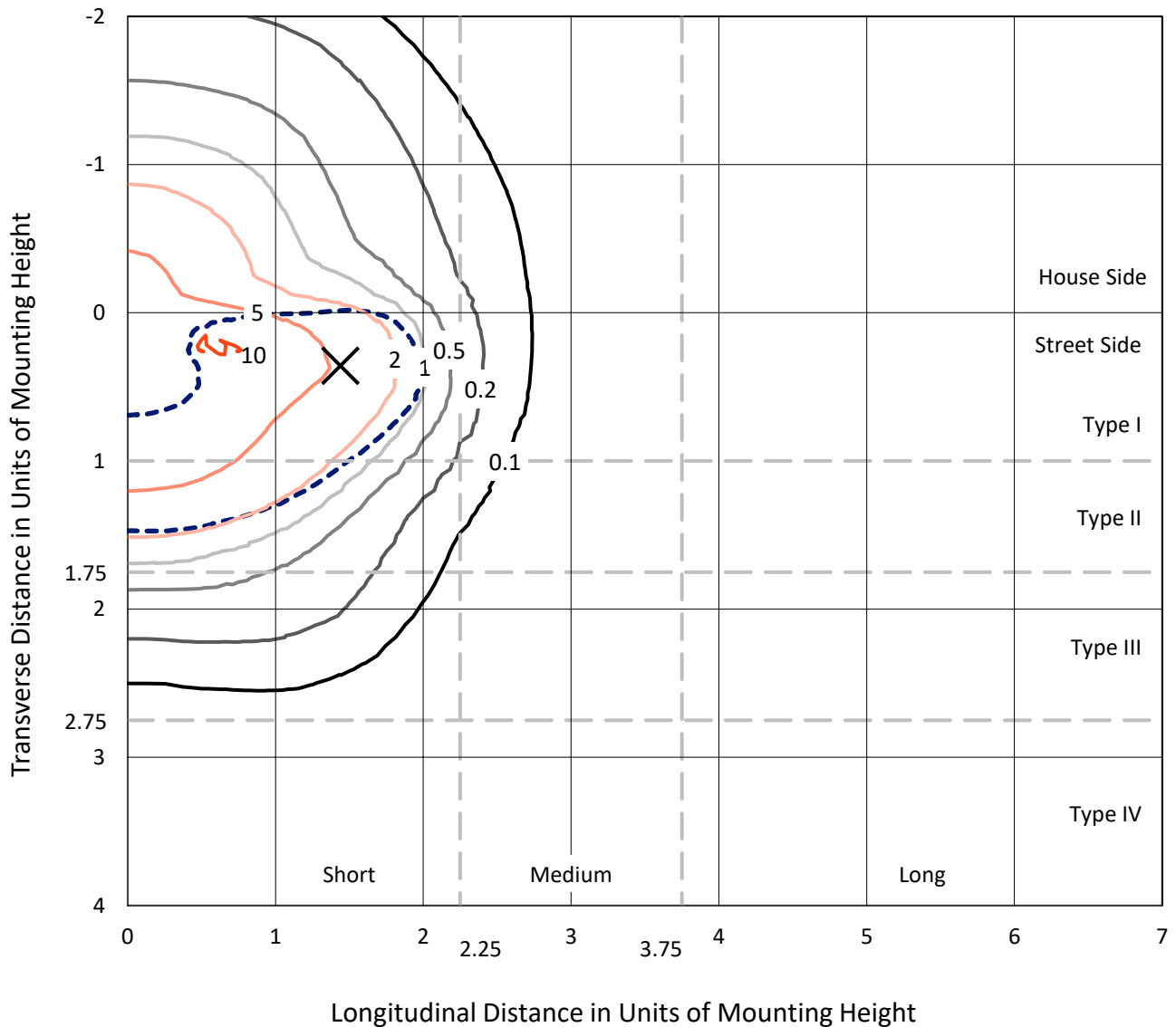
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

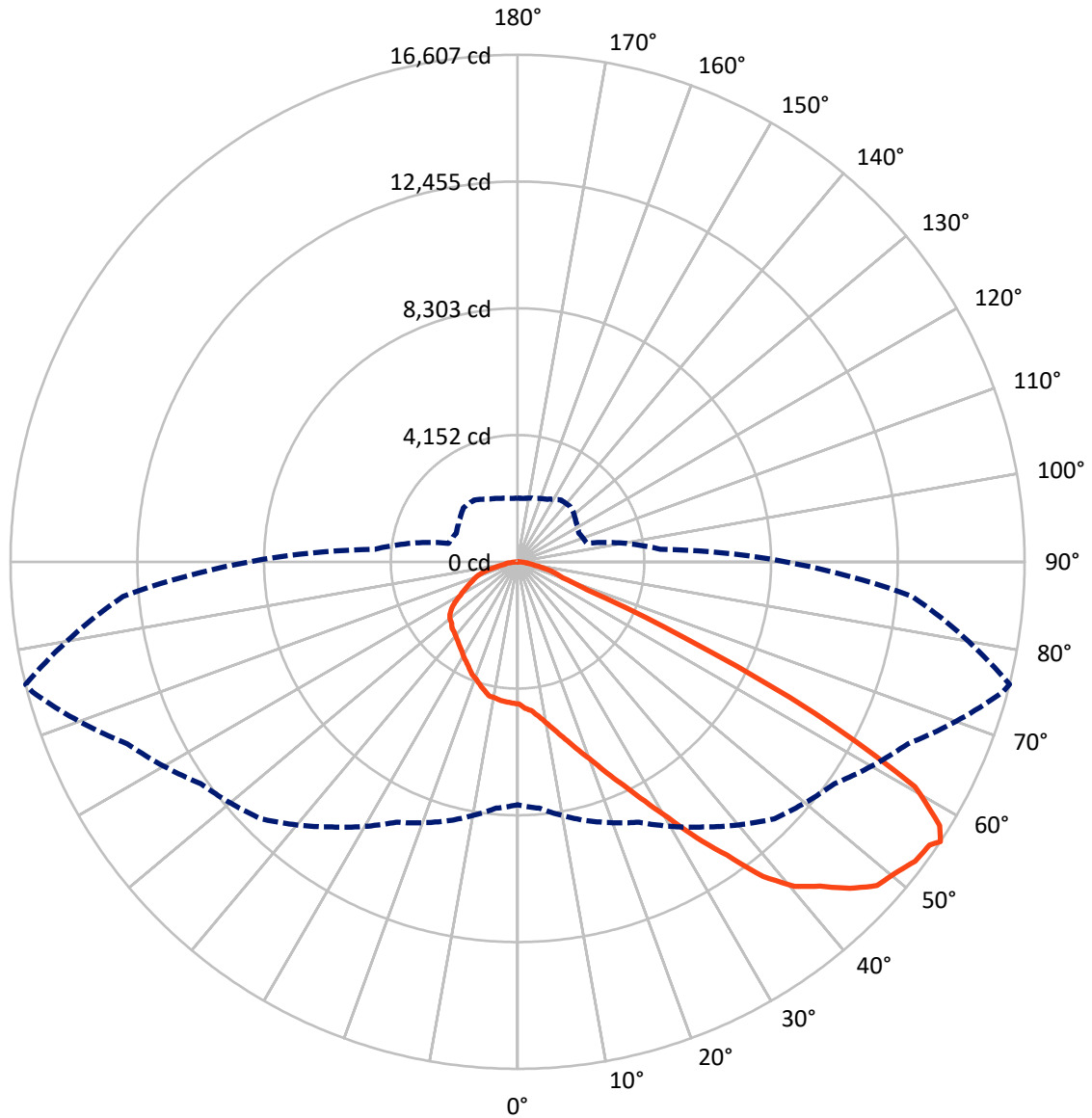
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6542.2	0.0	6542.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	17789.9	0.0	17789.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	24332.0	0.0	24332.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.7	1.9
10°-20°	1450.3	6.0
20°-30°	2536.5	10.4
30°-40°	3971.3	16.3
40°-50°	5777.2	23.7
50°-60°	6349.5	26.1
60°-70°	2834.1	11.6
70°-80°	818.6	3.4
80°-90°	132.8	0.5
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°	24332.0	100.0
0°-180°	24332.0	100.0

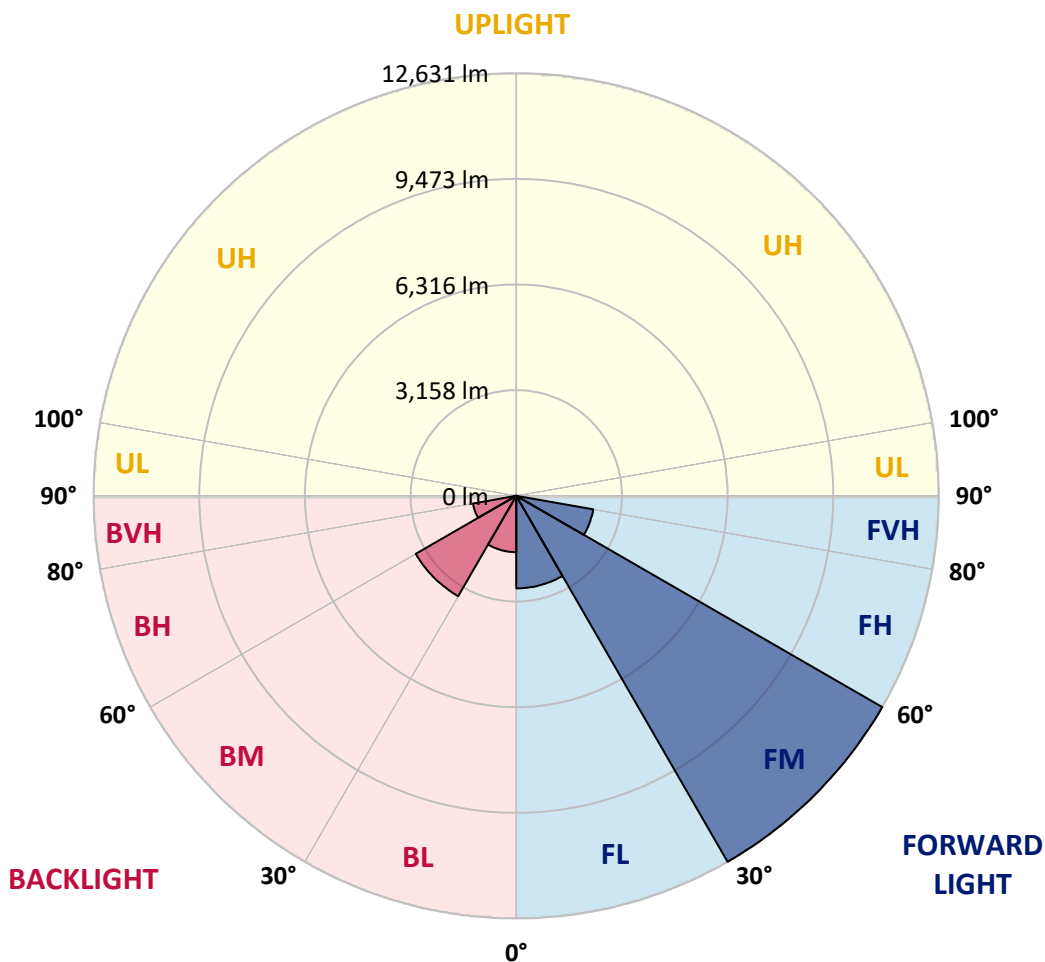


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.1	11.4			
FM (30°-60°)	12631.2	51.9			
FH (60°-80°)	2336.4	9.6			G2/5000
FVH (80°-90°)	57.2	0.2			G1/100
BL (0°-30°)	1683.4	6.9	B3/2500		
BM (30°-60°)	3466.8	14.2	B3/5000		
BH (60°-80°)	1316.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	75.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	5128.7	5046.7	5040.4	5018.4	5031.0	4974.2	4914.3	4835.4	4753.4	4803.9	4684.0
5°	5488.3	5377.9	5422.1	5346.4	5355.9	5280.1	5157.1	5065.7	4964.7	4904.8	4819.6
7.5°	5614.5	5624.0	5655.5	5642.9	5579.8	5579.8	5497.8	5336.9	5160.3	5125.6	4983.7
10°	5784.8	5788.0	5753.3	5762.7	5851.1	5810.1	5737.5	5668.1	5441.0	5400.0	5147.7
12.5°	5844.8	5788.0	5844.8	5895.2	5999.3	6056.1	6040.3	5989.8	5747.0	5718.6	5349.5
15°	5854.2	5819.5	5866.8	5980.4	6071.9	6311.6	6431.4	6396.7	6075.0	6078.2	5576.6
17.5°	5810.1	5857.4	5876.3	5974.1	6185.4	6409.4	6756.3	6803.6	6538.7	6497.7	5863.7
20°	5870.0	5835.3	5860.5	5948.8	6229.6	6579.7	7033.9	7346.2	6974.0	6945.6	6160.2
22.5°	6100.2	6052.9	6046.6	6103.4	6305.3	6668.0	7327.2	7888.7	7503.9	7519.6	6529.2
25°	6280.0	6305.3	6283.2	6280.0	6406.2	6800.5	7715.2	8535.3	8223.0	8131.6	6964.5
27.5°	6589.1	6649.1	6604.9	6664.8	6636.5	6999.2	7992.8	9251.3	8999.0	8876.0	7358.8
30°	7018.1	7049.7	7008.7	7008.7	6923.5	7276.8	8245.1	9998.8	9894.8	9727.6	7822.4
32.5°	7582.7	7630.0	7548.0	7500.7	7488.1	7690.0	8699.3	10736.9	10913.6	10771.6	8437.5
35°	8330.3	8301.9	8204.1	8159.9	7989.6	8324.0	9374.3	11585.4	12049.1	11796.7	9181.9
37.5°	8989.5	8945.3	8939.0	8693.0	8734.0	9008.4	9948.4	12228.9	13149.9	13077.4	9967.3
40°	9604.6	9645.6	9711.8	9573.0	9509.9	9812.8	10617.1	12720.9	14004.7	13976.3	10572.9
42.5°	10263.8	10226.0	10342.7	10226.0	10131.3	10560.3	11342.5	13061.6	14755.4	14522.0	11206.9
45°	11219.5	11099.7	11140.7	11150.1	11080.7	11238.5	11642.2	13307.6	15282.2	15256.9	11670.6
47.5°	12017.5	12020.7	11951.3	11897.7	11686.4	11844.1	11976.5	13462.2	15887.8	15846.8	11850.4
50°	12314.0	12273.0	12474.9	12591.6	12604.2	12282.5	12238.3	13547.3	16206.3	16026.5	12030.2
52.5°	11247.9	11285.8	11604.3	12298.3	12698.9	12733.6	12544.3	13724.0	16335.7	16297.8	12175.3
55°	9052.6	9235.5	9759.1	10560.3	11509.7	12553.8	12875.5	13906.9	16405.1	16373.5	12818.7
56°	7958.1	8100.0	8781.3	9409.0	10601.3	11900.8	12667.3	14102.5	16458.7	16606.9	12970.1
57.5°	6406.2	6570.2	7059.1	7772.0	9178.8	10658.1	12093.2	13862.8	16250.5	16307.3	13080.5
60°	4005.8	4021.6	4608.3	5078.3	6068.7	7513.3	9229.2	12061.7	15039.3	14957.3	11749.4
62.5°	2627.5	2630.6	3163.7	3548.5	3999.5	4330.7	5431.6	7999.1	11096.5	10951.4	8365.0
65°	1845.2	1886.2	2299.4	2813.6	2996.5	2823.0	2788.3	4217.2	6198.0	5989.8	4494.8
67.5°	1350.0	1353.2	1719.0	2271.0	2536.0	2148.0	1744.3	2059.7	2454.0	2447.7	2081.8
70°	892.6	930.5	1211.2	1697.0	1999.8	1725.4	1425.7	1473.0	1561.3	1561.3	1548.7
72.5°	520.4	555.1	741.2	1075.6	1122.9	1078.7	1129.2	1261.7	1318.5	1315.3	1299.5
75°	296.5	312.3	353.3	447.9	558.3	659.2	829.6	955.7	1012.5	1047.2	1006.2
77.5°	173.5	182.9	208.2	255.5	290.2	356.4	451.1	539.4	615.1	605.6	611.9
80°	91.5	91.5	116.7	151.4	201.9	252.3	299.7	350.1	391.1	400.6	410.0
82.5°	53.6	56.8	75.7	110.4	145.1	179.8	230.3	265.0	302.8	306.0	312.3
85°	28.4	31.5	47.3	72.5	97.8	110.4	113.6	107.2	116.7	110.4	126.2
87.5°	9.5	9.5	15.8	12.6	12.6	15.8	18.9	18.9	25.2	25.2	25.2
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°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	4680.8	4680.8	4627.2	4526.3	4510.5	4469.5	4431.7	4428.5	4400.1	4374.9	4362.3
5°	4769.2	4671.4	4592.5	4501.1	4393.8	4343.3	4286.6	4223.5	4198.3	4223.5	4220.3
7.5°	4870.1	4788.1	4551.5	4381.2	4258.2	4207.7	4144.6	4078.4	4084.7	4084.7	4040.5
10°	4967.9	4857.5	4479.0	4261.3	4081.5	4043.7	4009.0	4034.2	4065.8	4072.1	4043.7
12.5°	5131.9	4882.7	4444.3	4141.5	4027.9	3945.9	3968.0	4037.4	4103.6	4084.7	4106.8
15°	5254.9	4904.8	4286.6	4018.5	3876.5	3914.4	3993.2	4040.5	4150.9	4138.3	4160.4
17.5°	5374.8	4917.4	4132.0	3854.4	3794.5	3898.6	3958.5	4094.2	4128.9	4204.6	4233.0
20°	5620.8	4942.6	3974.3	3753.5	3734.6	3854.4	3958.5	4021.6	4097.3	4163.6	4163.6
22.5°	5747.0	4930.0	3870.2	3621.0	3681.0	3756.7	3851.3	3958.5	3958.5	4021.6	4024.8
25°	5904.7	4879.6	3706.2	3558.0	3602.1	3674.7	3781.9	3744.0	3785.1	3785.1	3835.5
27.5°	6084.5	4772.3	3564.3	3444.4	3532.7	3611.6	3627.3	3602.1	3554.8	3548.5	3529.6
30°	6229.6	4639.8	3460.2	3406.5	3479.1	3523.3	3472.8	3419.2	3337.2	3330.8	3286.7
32.5°	6428.3	4475.8	3330.8	3311.9	3393.9	3397.1	3381.3	3299.3	3179.4	3129.0	3078.5
35°	6762.6	4381.2	3233.1	3261.5	3286.7	3277.2	3248.8	3160.5	3040.7	3018.6	2999.7
37.5°	7008.7	4311.8	3132.1	3166.8	3188.9	3201.5	3116.4	3018.6	3021.7	2977.6	2965.0
40°	7286.2	4267.6	3050.1	3065.9	3069.0	3110.1	3006.0	2958.7	2980.7	2952.3	2971.3
42.5°	7642.7	4280.3	2965.0	2952.3	3012.3	2996.5	2946.0	2882.9	2895.6	2810.4	2823.0
45°	7831.9	4365.4	2914.5	2857.7	2924.0	2920.8	2854.6	2794.6	2718.9	2554.9	2561.2
47.5°	7958.1	4387.5	2794.6	2756.8	2826.2	2867.2	2791.5	2652.7	2545.4	2428.7	2400.4
50°	8087.4	4428.5	2737.9	2659.0	2687.4	2785.2	2690.5	2558.1	2454.0	2349.9	2365.7
52.5°	8200.9	4507.4	2627.5	2510.8	2561.2	2668.5	2618.0	2457.1	2343.6	2258.4	2233.2
55°	8705.6	4684.0	2441.4	2290.0	2409.8	2545.4	2517.1	2321.5	2198.5	2154.3	2148.0
56°	8784.5	4690.3	2343.6	2214.3	2324.7	2504.4	2469.7	2261.6	2151.2	2081.8	2084.9
57.5°	8797.1	4614.6	2204.8	2144.9	2239.5	2444.5	2400.4	2214.3	2062.9	1999.8	1980.8
60°	7740.4	3602.1	2031.3	1993.5	2103.9	2261.6	2245.8	2084.9	1914.6	1842.1	1876.8
62.5°	5277.0	2640.1	1895.7	1889.4	1946.1	2100.7	2059.7	1914.6	1772.7	1725.4	1703.3
65°	3072.2	2002.9	1763.2	1738.0	1785.3	1867.3	1895.7	1744.3	1596.0	1564.5	1555.0
67.5°	1813.7	1656.0	1592.9	1551.9	1536.1	1586.6	1608.6	1520.3	1372.1	1327.9	1365.8
70°	1517.2	1473.0	1476.2	1406.8	1368.9	1334.2	1315.3	1236.5	1113.4	1056.7	1040.9
72.5°	1309.0	1290.1	1277.5	1214.4	1179.7	1100.8	1018.8	940.0	848.5	801.2	804.3
75°	999.9	993.6	999.9	968.3	908.4	845.3	769.6	668.7	599.3	539.4	552.0
77.5°	596.1	615.1	624.5	611.9	586.7	529.9	482.6	416.4	350.1	302.8	296.5
80°	410.0	425.8	441.6	425.8	400.6	359.6	309.1	258.6	211.3	186.1	179.8
82.5°	312.3	328.0	337.5	321.7	290.2	246.0	211.3	176.6	138.8	113.6	107.2
85°	113.6	129.3	126.2	151.4	164.0	157.7	135.6	104.1	78.9	56.8	53.6
87.5°	31.5	28.4	31.5	31.5	31.5	28.4	25.2	25.2	25.2	15.8	12.6
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)