

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: P647572

Luminaire Tested: **GALN-SA7D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35970.2 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

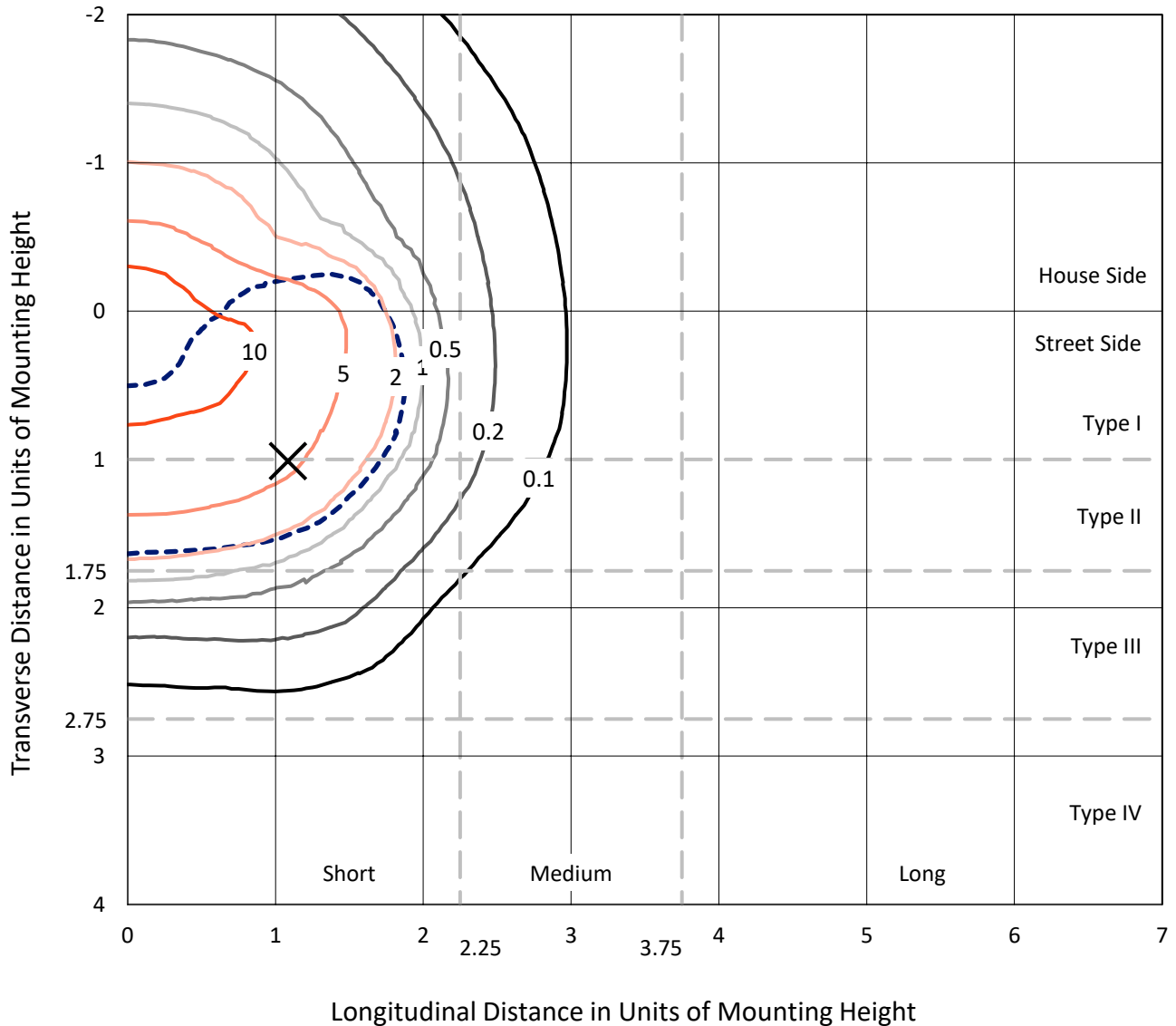
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

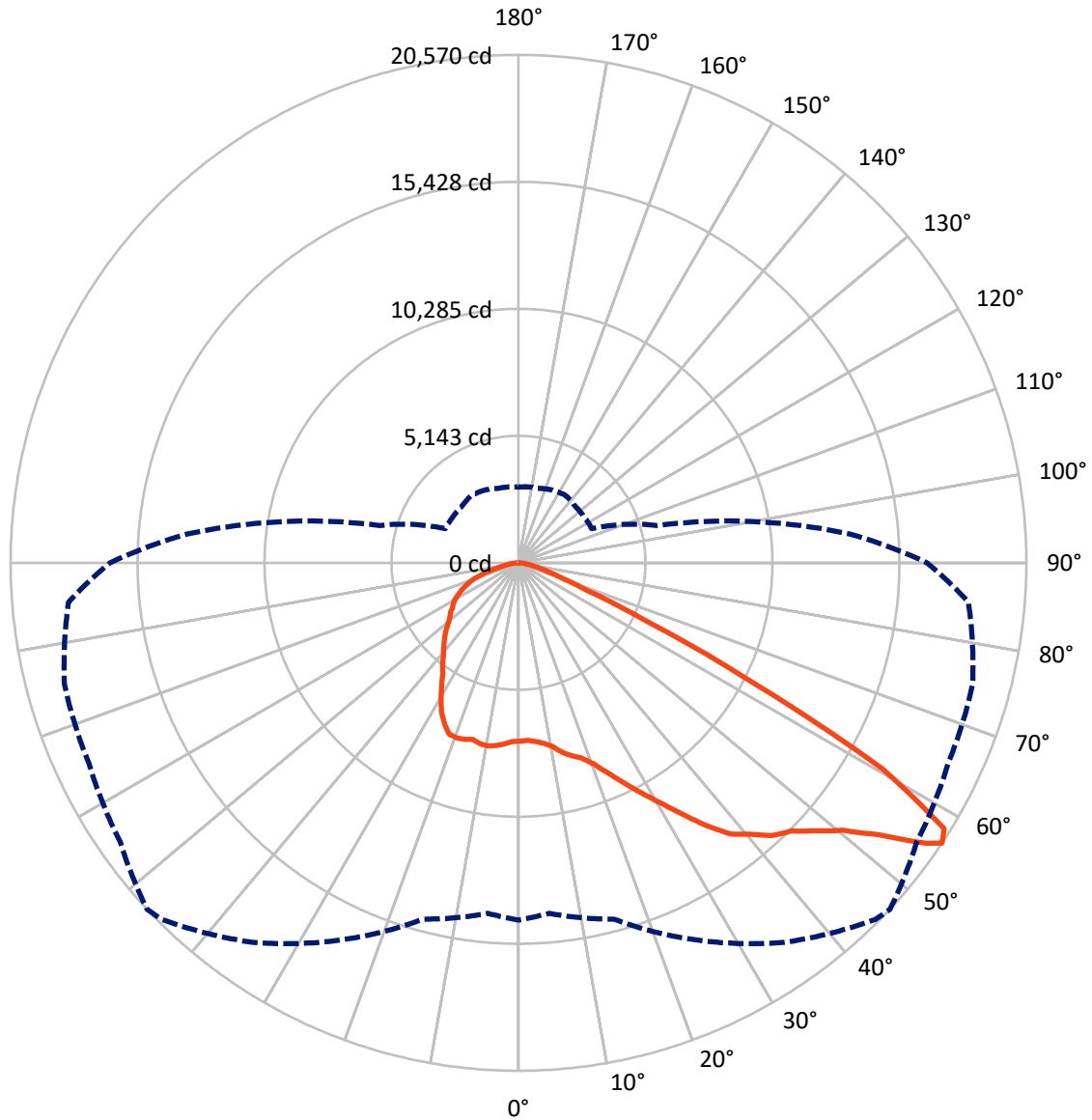
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11398.5	0.0	11398.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	24571.7	0.0	24571.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	35970.2	0.0	35970.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.0	2.0
10°-20°	2220.8	6.2
20°-30°	3925.8	10.9
30°-40°	5896.5	16.4
40°-50°	8092.3	22.5
50°-60°	9641.0	26.8
60°-70°	4125.7	11.5
70°-80°	1167.6	3.2
80°-90°	196.5	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°	35970.2	100.0
0°-180°	35970.2	100.0

Coefficient of Utilization



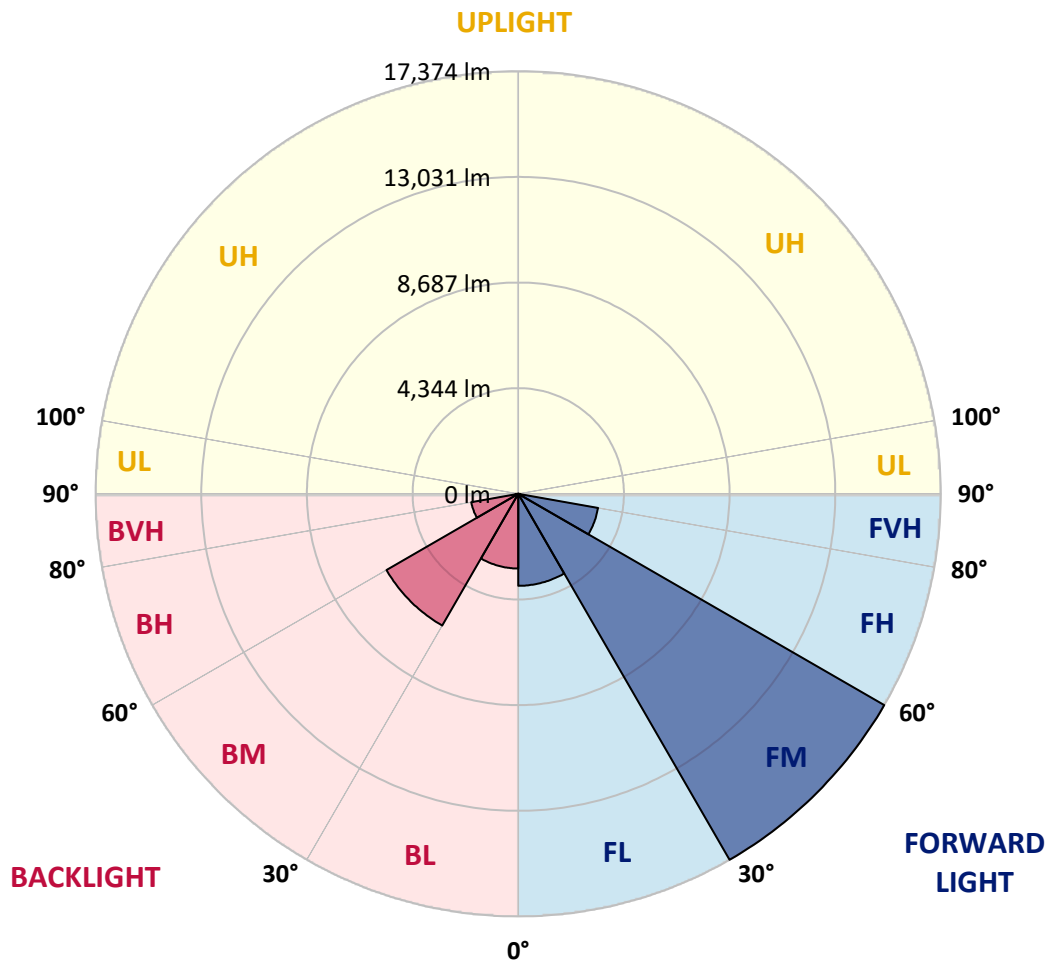
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3781.7	10.5			
FM (30°-60°)	17374.5	48.3			
FH (60°-80°)	3332.2	9.3			G2/5000
FVH (80°-90°)	83.4	0.2			G1/100
BL (0°-30°)	3069.0	8.5	B4/5000		
BM (30°-60°)	6255.3	17.4	B4/8500		
BH (60°-80°)	1961.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	113.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3
2.5°	7197.8	7184.0	7174.9	7248.2	7220.7	7225.3	7197.8	7225.3	7243.7	7202.4	7262.0
5°	7184.0	7225.3	7188.6	7211.6	7271.2	7252.9	7271.2	7326.2	7312.5	7298.7	7280.4
7.5°	7312.5	7317.1	7344.6	7353.8	7372.1	7353.8	7381.3	7431.8	7418.0	7340.0	7349.2
10°	7496.0	7505.1	7509.8	7560.2	7592.4	7596.9	7564.8	7518.9	7514.4	7619.8	7546.5
12.5°	7707.0	7684.0	7739.1	7757.5	7794.2	7835.5	7876.7	7780.4	7840.0	7844.6	7757.5
15°	8014.4	8037.3	7973.1	7973.1	7986.8	7991.5	8106.2	8060.3	8051.0	8000.6	8037.3
17.5°	8473.2	8317.2	8312.6	8248.4	8239.2	8275.8	8317.2	8353.8	8477.7	8376.8	8179.5
20°	8808.0	8844.7	8711.7	8633.7	8647.5	8730.1	8688.7	8853.9	8941.1	8775.9	8583.2
22.5°	9399.8	9276.0	9308.1	9133.7	9147.5	9234.6	9230.1	9399.8	9450.3	9188.8	8909.0
25°	9798.9	9766.8	9794.3	9656.7	9675.1	9743.9	9854.0	10133.8	10051.2	9762.2	9115.4
27.5°	10381.6	10317.3	10294.3	10243.9	10225.6	10409.0	10537.5	10835.7	10776.0	10354.0	9482.4
30°	10977.9	10936.6	10959.6	10753.1	10826.5	11216.5	11253.2	11661.5	11633.9	10890.7	9890.7
32.5°	11390.8	11413.7	11455.0	11340.3	11666.1	11978.0	12101.8	12565.2	12588.1	11812.8	10679.7
35°	12056.0	11978.0	12001.0	12134.0	12285.3	12854.2	13056.1	13363.4	13556.1	12780.8	11436.7
37.5°	12473.4	12556.0	12459.6	12670.7	13065.2	13748.8	13932.2	14248.8	14450.7	13735.0	12468.9
40°	13124.9	12991.8	13060.7	13212.0	13615.7	14505.7	14455.3	14780.9	14845.2	14547.0	13432.2
42.5°	13826.8	13762.6	13666.2	14010.2	14349.7	14996.6	15097.5	14946.1	15271.8	15340.6	14808.5
45°	14666.3	14744.3	14758.0	14767.2	15065.4	15629.6	15492.0	15359.0	15735.2	16235.2	15661.7
47.5°	15446.2	15198.4	15377.3	15625.1	16047.1	16051.7	16212.2	15895.7	16294.9	16739.8	16432.4
50°	15707.6	15588.4	15826.9	16294.9	16946.2	17015.1	17033.5	16583.9	16790.3	17143.6	16698.6
52.5°	15606.7	15565.4	16175.5	16900.4	17854.6	18203.3	18295.0	17739.9	17854.6	17694.0	17285.7
55°	15125.1	15248.8	15863.6	17340.8	18804.2	19882.2	20056.6	19354.7	18625.3	18749.2	18299.6
56°	14464.4	14248.8	14936.9	16840.8	18763.0	20428.2	20570.4	19694.2	19198.7	19038.2	18290.4
57.5°	12271.6	11991.7	12895.5	15152.5	17721.6	20221.8	20327.2	19836.4	19102.4	18776.7	16955.5
60°	7184.0	7321.7	8468.5	10450.3	13670.8	16579.2	16932.5	17290.4	16799.4	15340.6	12620.2
62.5°	3468.1	3381.0	4202.1	5991.3	8330.9	10583.4	10477.9	11482.5	12033.1	10899.9	7968.5
65°	1816.6	1807.5	2293.7	3270.9	4578.4	5560.1	5656.4	6197.8	6954.7	5615.1	4046.2
67.5°	1334.9	1371.7	1614.8	2298.3	2945.2	3004.8	2991.1	3261.7	3335.1	2821.3	2486.4
70°	1045.9	1064.3	1243.2	1747.8	2192.8	1963.5	1922.2	1954.3	2169.9	2261.6	2151.5
72.5°	756.9	775.3	926.7	1179.0	1371.7	1339.6	1367.0	1546.0	1812.1	1908.4	1793.7
75°	504.6	518.4	601.0	720.2	812.0	876.2	926.7	1133.1	1380.8	1435.9	1380.8
77.5°	348.7	362.5	417.5	509.2	518.4	559.7	578.0	674.4	825.8	894.6	857.9
80°	197.2	197.2	224.8	261.5	321.1	376.2	385.3	463.3	532.1	578.0	587.2
82.5°	91.8	96.3	119.3	160.6	211.0	261.5	270.7	321.1	371.6	417.5	431.2
85°	45.9	50.4	68.8	96.3	128.4	156.0	151.4	156.0	165.1	156.0	160.6
87.5°	13.8	13.8	18.3	22.9	18.3	22.9	22.9	27.6	32.1	36.7	41.3
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°	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3	7225.3
2.5°	7266.6	7280.4	7188.6	7275.8	7243.7	7239.1	7303.4	7294.1	7317.1	7307.9	7252.9
5°	7271.2	7239.1	7335.5	7248.2	7289.6	7376.7	7317.1	7454.7	7385.9	7431.8	7330.8
7.5°	7413.4	7422.6	7404.2	7440.9	7422.6	7463.9	7431.8	7463.9	7408.8	7413.4	7505.1
10°	7537.3	7509.8	7541.9	7496.0	7528.1	7514.4	7440.9	7418.0	7436.4	7413.4	7473.0
12.5°	7766.7	7716.2	7693.3	7638.2	7601.5	7463.9	7349.2	7285.0	7372.1	7385.9	7358.4
15°	8000.6	8005.2	7899.7	7775.8	7546.5	7340.0	7367.6	7390.5	7390.5	7427.1	7358.4
17.5°	8147.4	8147.4	8051.0	7803.4	7569.4	7450.1	7422.6	7349.2	7285.0	7275.8	7271.2
20°	8404.3	8326.3	8106.2	7798.8	7560.2	7505.1	7298.7	7124.4	6991.3	6945.5	6940.9
22.5°	8698.0	8500.6	8193.3	7807.9	7546.5	7468.5	7083.1	6821.7	6583.1	6482.1	6495.9
25°	8968.6	8652.1	8243.7	7766.7	7496.0	7119.8	6688.6	6326.2	6078.4	5995.9	5954.6
27.5°	9156.6	8812.6	8243.7	7803.4	7307.9	6729.9	6289.4	5826.1	5610.5	5555.5	5564.6
30°	9409.0	9014.4	8385.9	7725.4	6931.7	6225.2	5697.7	5394.9	5266.5	5220.6	5252.7
32.5°	10000.8	9542.0	8583.2	7537.3	6486.8	5720.6	5294.0	5124.3	4936.2	4844.4	4812.3
35°	10643.0	10042.1	8775.9	7220.7	5986.7	5261.8	4995.8	4839.8	4615.0	4514.1	4532.5
37.5°	11551.4	10684.3	8789.6	6697.8	5445.4	5004.9	4761.8	4518.7	4335.2	4179.2	4133.4
40°	12776.2	11560.5	8757.5	6147.3	5009.6	4702.2	4523.3	4220.5	4014.0	3904.0	3926.9
42.5°	13854.2	12588.1	8624.5	5523.4	4615.0	4495.8	4293.9	3995.7	3793.9	3679.2	3670.0
45°	14762.6	13345.1	8372.2	4991.2	4284.7	4266.4	4032.4	3803.0	3642.5	3537.0	3582.9
47.5°	15602.1	13955.2	7991.5	4459.0	3981.9	4018.7	3793.9	3651.7	3550.7	3454.4	3449.8
50°	15904.9	13946.0	7656.6	4018.7	3738.8	3720.5	3711.3	3559.9	3454.4	3371.8	3408.6
52.5°	16409.5	14102.0	7294.1	3715.9	3518.6	3523.2	3555.3	3445.2	3325.9	3275.4	3321.3
55°	17134.3	14124.9	6495.9	3362.7	3335.1	3367.2	3367.2	3293.8	3192.9	3151.7	3128.7
56°	16542.6	13441.4	5826.1	3270.9	3243.3	3243.3	3330.6	3248.0	3124.1	3092.0	3064.4
57.5°	15258.1	11776.2	4876.5	3160.8	3119.5	3183.8	3229.6	3142.4	3027.8	2981.9	3009.4
60°	10523.8	7968.5	3665.5	2922.2	2922.2	3027.8	3064.4	2936.0	2885.5	2881.0	2844.2
62.5°	6142.7	4642.6	2867.2	2706.6	2715.8	2803.0	2830.5	2757.1	2692.9	2770.9	2807.5
65°	3257.1	2770.9	2458.9	2477.3	2481.9	2550.6	2670.0	2665.3	2660.8	2683.7	2688.3
67.5°	2358.0	2303.0	2234.1	2215.7	2225.0	2275.4	2394.6	2486.4	2481.9	2426.8	2385.5
70°	2101.1	2023.1	1981.8	1986.4	1949.7	2009.3	2105.6	2165.3	2059.8	1995.6	1968.1
72.5°	1747.8	1724.9	1697.4	1701.9	1628.6	1614.8	1504.7	1504.7	1477.2	1458.8	1490.9
75°	1334.9	1325.8	1339.6	1316.6	1238.6	1156.0	1091.8	1032.2	940.5	903.7	885.4
77.5°	844.1	871.6	903.7	853.3	821.1	761.5	697.3	637.7	564.2	523.0	523.0
80°	573.5	596.4	619.3	610.1	573.5	518.4	467.9	403.7	353.2	321.1	316.6
82.5°	435.8	454.1	486.2	449.6	412.9	367.0	325.7	279.8	234.0	197.2	197.2
85°	156.0	178.9	197.2	215.6	229.3	234.0	201.9	165.1	133.0	105.5	100.9
87.5°	41.3	45.9	50.4	45.9	45.9	45.9	50.4	45.9	41.3	32.1	32.1
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)