

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: P527213

Luminaire Tested: **GALN-SA2B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7139 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

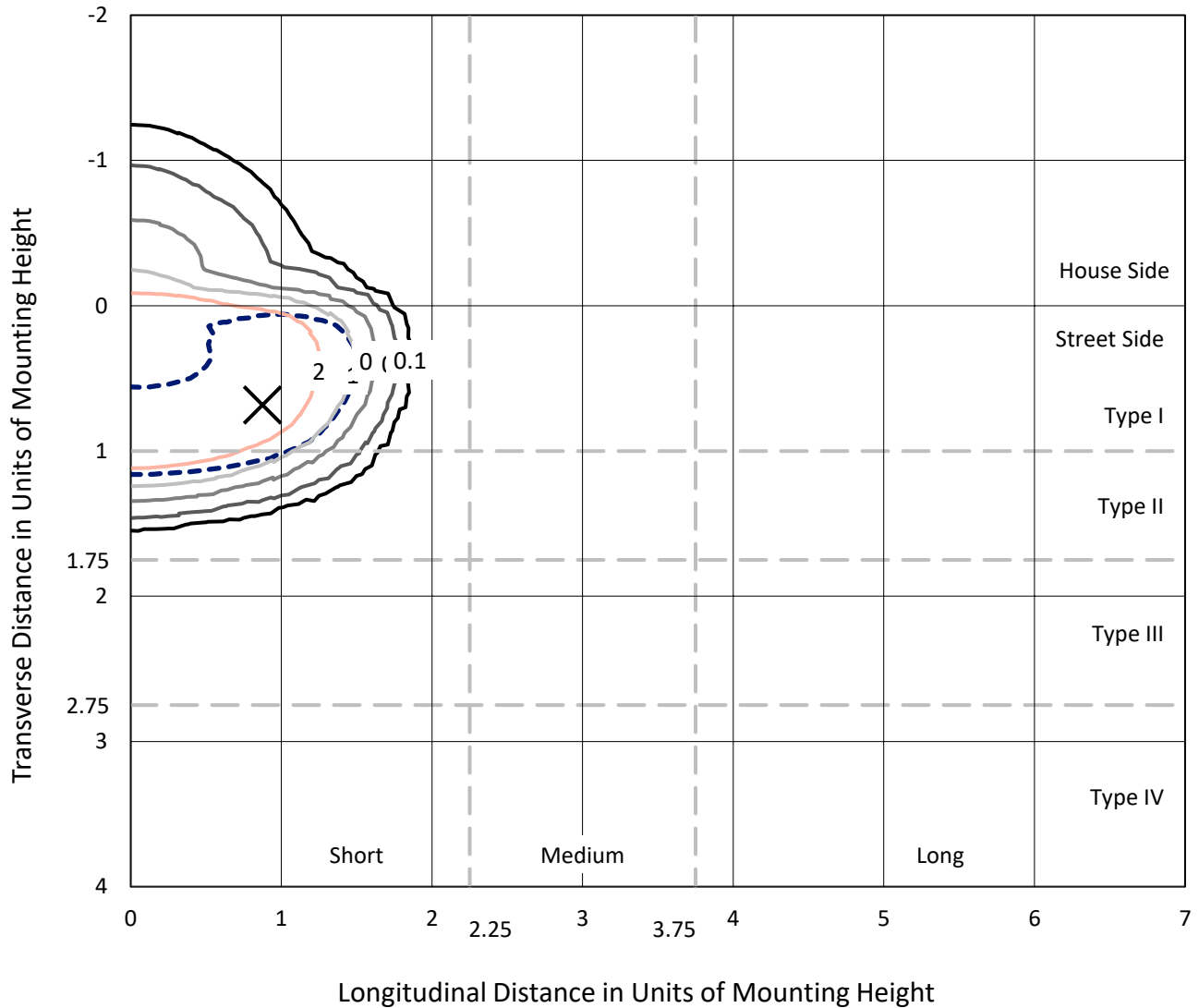
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

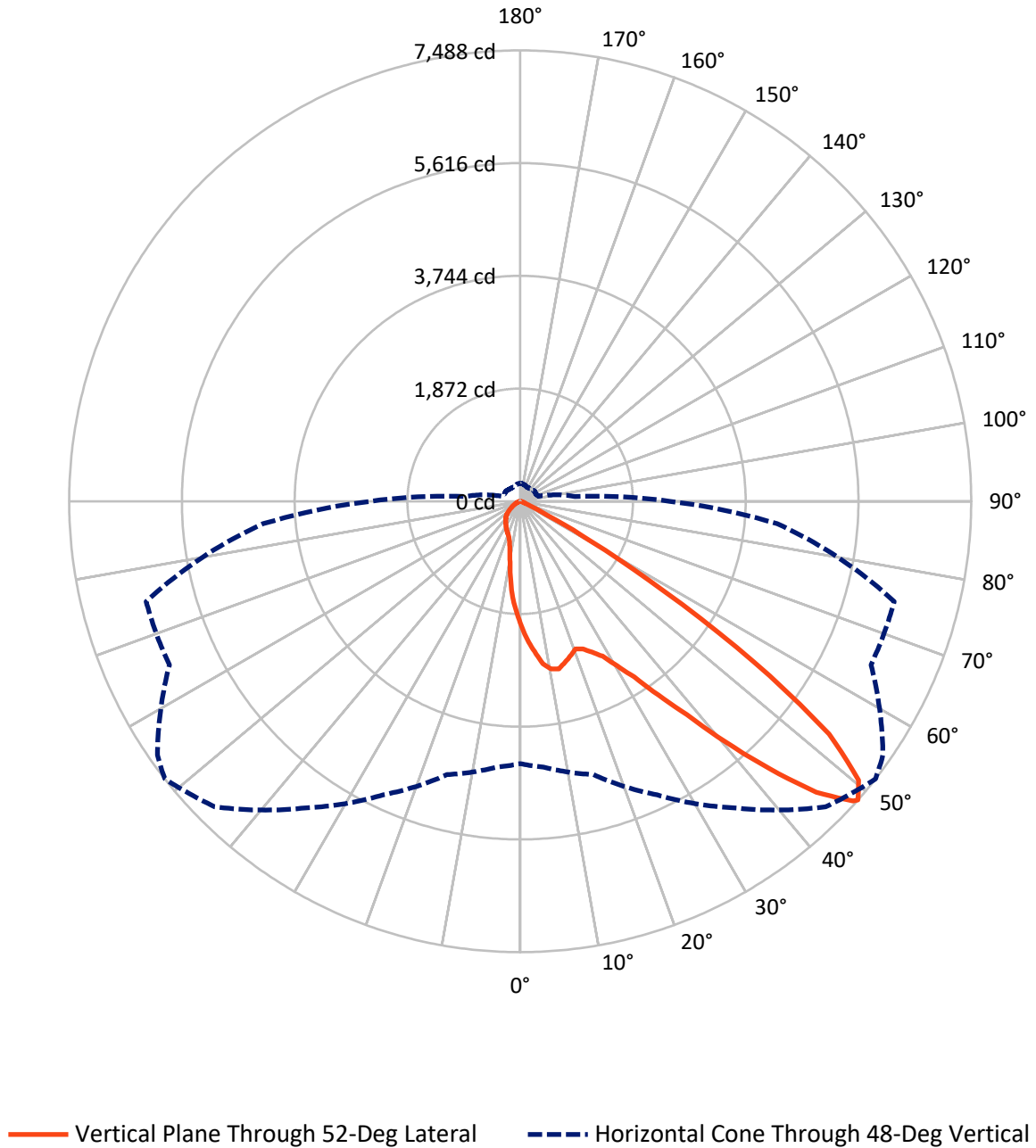
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.2	0.0	869.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6269.8	0.0	6269.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	7139.0	0.0	7139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	2.6
10°-20°	493.1	6.9
20°-30°	842.0	11.8
30°-40°	1550.5	21.7
40°-50°	2407.9	33.7
50°-60°	1449.2	20.3
60°-70°	167.6	2.3
70°-80°	32.4	0.5
80°-90°	7.5	0.1
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°	7139.0	100.0
0°-180°	7139.0	100.0

Coefficient of Utilization



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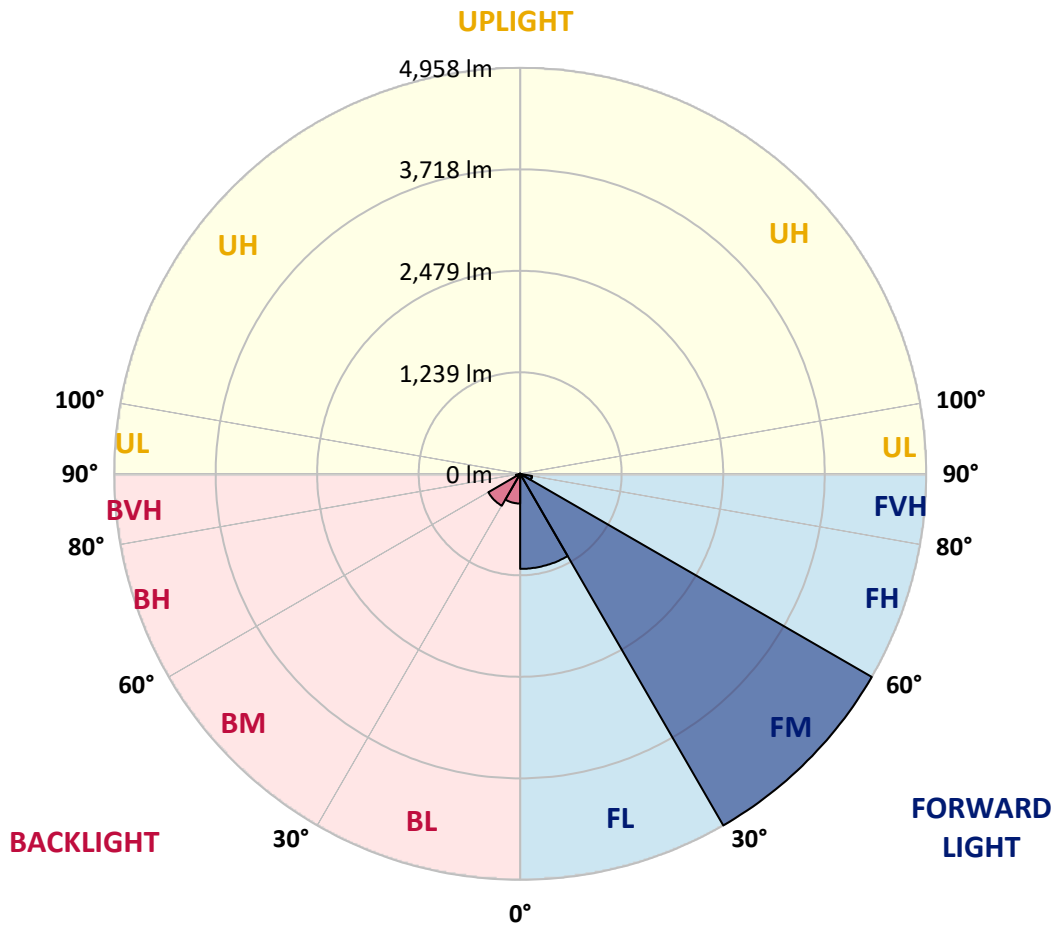
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1160.7	16.3			
FM (30°-60°)	4957.9	69.4			
FH (60°-80°)	147.6	2.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	363.1	5.1	B1/500		
BM (30°-60°)	449.7	6.3	B1/1000		
BH (60°-80°)	52.5	0.7	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2498.7	2441.5	2446.7	2409.2	2387.4	2352.0	2304.1	2294.7	2242.7	2171.9	2100.1
5°	2723.5	2710.0	2727.7	2673.6	2675.6	2617.4	2505.0	2507.0	2387.4	2271.8	2160.5
7.5°	2738.1	2706.9	2724.5	2772.4	2800.5	2790.1	2726.6	2671.5	2558.0	2388.4	2226.1
10°	2451.9	2511.2	2529.9	2609.0	2721.4	2840.1	2832.8	2835.9	2741.2	2519.5	2282.3
12.5°	2280.2	2240.6	2304.1	2352.0	2521.6	2751.6	2856.7	2879.6	2886.9	2646.5	2338.5
15°	2202.1	2202.1	2212.5	2226.1	2348.9	2561.2	2775.5	2842.1	2999.3	2813.0	2426.9
17.5°	2251.0	2249.0	2263.5	2235.4	2281.2	2444.6	2700.6	2776.6	3125.2	2976.4	2496.6
20°	2399.9	2407.1	2397.8	2316.6	2319.7	2442.5	2617.4	2737.0	3210.6	3117.9	2589.3
22.5°	2607.0	2611.1	2558.0	2469.6	2443.6	2503.9	2665.2	2756.8	3279.2	3287.6	2617.4
25°	2846.3	2829.7	2819.3	2694.4	2615.3	2667.3	2773.5	2826.5	3321.9	3433.3	2697.5
27.5°	3178.3	3145.0	3081.5	2970.2	2911.9	2838.0	2914.0	3001.4	3443.7	3637.2	2784.9
30°	3668.5	3639.3	3515.5	3371.9	3218.9	3146.0	3170.0	3217.8	3663.3	3873.5	2900.4
32.5°	4406.3	4344.9	4165.9	3892.2	3684.1	3483.2	3477.0	3528.0	3860.0	4200.3	3037.8
35°	5219.1	5200.4	4937.1	4655.0	4252.3	3942.2	3947.4	3974.4	4236.7	4629.0	3217.8
37.5°	5759.2	5862.3	5694.7	5391.9	5053.6	4610.3	4497.9	4507.3	4753.9	5136.9	3542.5
40°	6176.5	6089.1	6108.9	6038.1	5807.1	5505.3	5256.6	5207.7	5352.3	5698.9	3865.2
42.5°	5994.4	5998.6	6120.4	6287.9	6345.1	6323.3	6069.4	5976.7	5864.3	6158.9	4172.2
45°	5480.3	5587.5	5745.7	6189.0	6578.3	6943.5	6893.6	6739.6	6218.2	6523.1	4349.1
47.5°	4660.2	4656.1	4915.2	5491.8	6356.6	7212.0	7438.9	7330.7	6469.0	6482.5	4312.7
48°	4357.4	4432.3	4699.8	5378.3	6216.1	7172.5	7487.8	7351.5	6426.3	6428.4	4281.4
50°	3221.0	3207.4	3540.5	4373.0	5552.1	6739.6	7281.8	7387.9	6425.3	6154.7	4062.9
52.5°	1701.5	1759.8	2002.3	2749.5	3925.5	5515.7	6423.2	6588.7	6198.4	5707.2	3748.6
55°	723.3	653.6	839.8	1241.6	2208.4	3685.1	4712.3	5080.7	5241.0	5050.5	3279.2
57.5°	258.1	282.0	324.7	467.3	928.3	2016.9	2809.9	3096.1	3631.0	3705.9	2234.4
60°	165.5	168.6	182.1	214.4	348.6	777.4	1333.1	1561.0	1803.5	1861.8	1042.8
62.5°	128.0	129.0	135.3	140.5	165.5	301.8	500.6	593.2	616.1	529.7	273.7
65°	107.2	108.2	110.3	110.3	117.6	141.5	174.8	192.5	187.3	185.2	155.1
67.5°	82.2	84.3	88.5	88.5	92.6	86.4	96.8	103.0	116.6	141.5	132.2
70°	64.5	65.6	68.7	70.8	70.8	62.4	69.7	76.0	85.3	105.1	104.1
72.5°	50.0	52.0	54.1	54.1	51.0	42.7	50.0	55.2	61.4	72.8	70.8
75°	38.5	38.5	39.5	32.3	25.0	21.9	30.2	36.4	45.8	47.9	39.5
77.5°	10.4	11.4	10.4	9.4	10.4	15.6	19.8	22.9	29.1	29.1	26.0
80°	0.0	1.0	3.1	6.2	10.4	14.6	17.7	19.8	22.9	25.0	23.9
82.5°	0.0	1.0	3.1	6.2	9.4	11.4	15.6	16.7	18.7	21.9	21.9
85°	0.0	1.0	2.1	4.2	6.2	7.3	7.3	6.2	6.2	5.2	4.2
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2072.0	2039.8	1990.9	1913.8	1840.0	1792.1	1746.3	1695.3	1667.2	1665.1	1649.5
5°	2097.0	2024.2	1907.6	1775.4	1633.9	1512.1	1389.3	1309.2	1237.4	1197.8	1190.6
7.5°	2110.5	2015.8	1827.5	1605.8	1364.4	1165.6	1028.2	927.3	887.7	858.6	857.5
10°	2138.6	2001.3	1707.8	1381.0	1082.3	881.5	786.8	741.0	719.1	710.8	698.3
12.5°	2159.5	1974.2	1585.0	1150.0	855.5	730.6	688.9	678.5	679.6	683.7	678.5
15°	2188.6	1950.3	1419.5	943.9	718.1	657.7	657.7	659.8	674.4	676.5	675.4
17.5°	2186.5	1903.4	1248.8	777.4	634.8	626.5	629.6	649.4	658.8	661.9	654.6
20°	2211.5	1859.7	1073.0	664.0	588.0	600.5	621.3	626.5	637.9	640.0	631.7
22.5°	2204.2	1750.5	909.6	574.5	552.6	576.5	597.4	603.6	600.5	594.2	593.2
25°	2190.7	1656.8	759.7	515.1	526.6	552.6	572.4	560.9	554.7	555.7	556.8
27.5°	2166.7	1538.2	635.9	473.5	491.2	529.7	528.7	524.5	530.8	525.6	530.8
30°	2162.6	1419.5	533.9	436.1	465.2	493.3	495.4	502.7	509.9	500.6	509.9
32.5°	2168.8	1289.4	461.0	413.2	449.6	450.6	473.5	480.8	475.6	454.8	456.9
35°	2216.7	1189.5	408.0	400.7	424.6	425.6	447.5	438.1	415.2	402.8	410.0
37.5°	2317.6	1106.3	383.0	389.2	391.3	404.8	405.9	387.1	389.2	388.2	392.3
40°	2446.7	1042.8	365.3	378.8	376.7	386.1	348.6	359.0	368.4	371.5	373.6
42.5°	2535.1	997.0	353.8	362.2	358.0	341.3	320.5	330.9	338.2	349.7	351.8
45°	2574.7	960.6	340.3	333.0	333.0	302.8	294.5	296.6	313.3	325.7	323.7
47.5°	2510.2	925.2	316.4	294.5	301.8	276.8	267.5	267.5	285.2	300.8	297.6
48°	2485.2	910.6	317.4	286.2	291.4	272.7	263.3	261.2	281.0	295.6	295.6
50°	2361.3	856.5	290.4	263.3	252.9	250.8	244.6	246.6	259.1	272.7	272.7
52.5°	2119.9	739.9	245.6	225.8	207.1	219.6	222.7	218.5	224.8	237.3	236.2
55°	1769.2	568.2	196.7	187.3	172.8	186.3	192.5	187.3	181.1	190.4	190.4
57.5°	1133.3	306.0	157.1	159.2	144.7	158.2	163.4	150.9	139.5	146.7	145.7
60°	511.0	183.2	129.0	125.9	116.6	132.2	140.5	125.9	110.3	115.5	120.7
62.5°	191.5	130.1	97.8	95.7	93.7	108.2	112.4	100.9	85.3	88.5	89.5
65°	140.5	114.5	78.1	70.8	74.9	85.3	83.3	71.8	61.4	61.4	63.5
67.5°	119.7	99.9	63.5	55.2	55.2	56.2	52.0	45.8	42.7	44.8	46.8
70°	93.7	79.1	50.0	42.7	38.5	34.3	30.2	29.1	26.0	29.1	28.1
72.5°	60.4	53.1	38.5	32.3	29.1	23.9	19.8	18.7	15.6	14.6	14.6
75°	32.3	32.3	30.2	26.0	22.9	18.7	15.6	12.5	8.3	6.2	6.2
77.5°	22.9	25.0	27.1	25.0	20.8	15.6	12.5	8.3	4.2	2.1	2.1
80°	21.9	25.0	27.1	23.9	20.8	15.6	11.4	6.2	3.1	1.0	1.0
82.5°	19.8	22.9	25.0	21.9	18.7	13.5	10.4	6.2	3.1	1.0	1.0
85°	4.2	5.2	6.2	6.2	7.3	9.4	7.3	5.2	2.1	1.0	1.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	1.0
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)