

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: P455814

Luminaire Tested: **GALN-SA7A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20985 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

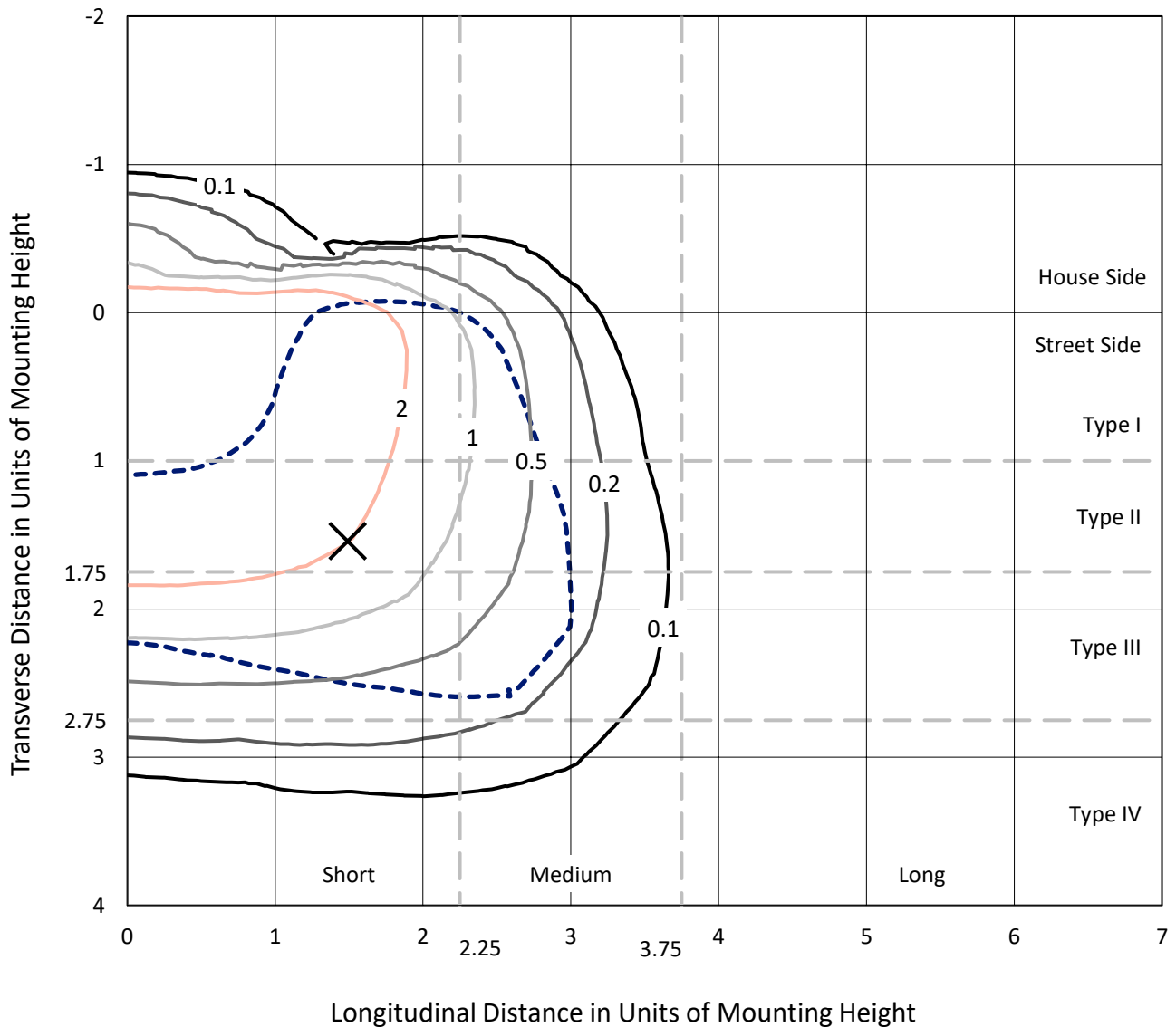
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

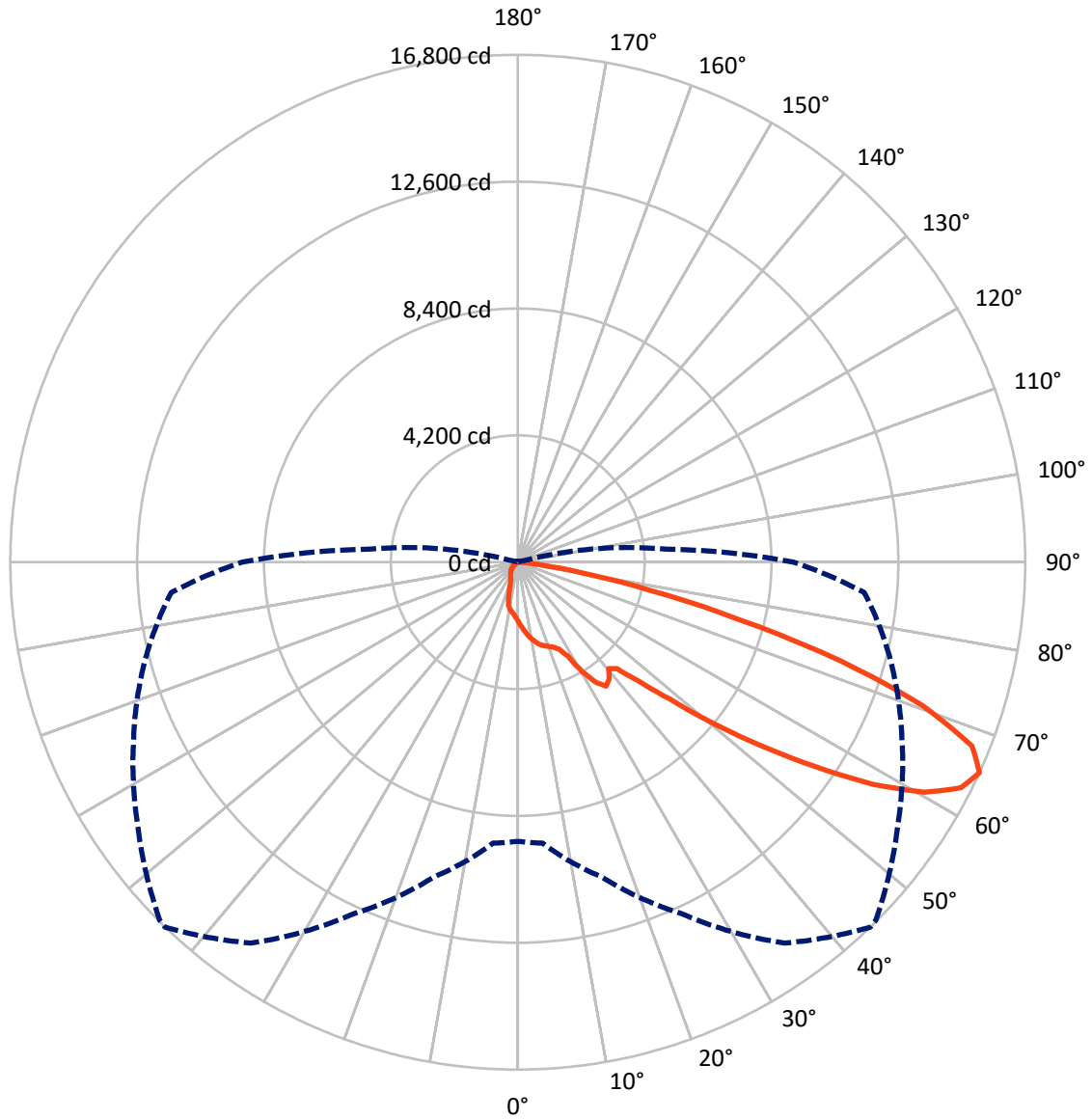
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.4	0.0	1933.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	19051.6	0.0	19051.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	20985.0	0.0	20985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	0.9
10°-20°	584.6	2.8
20°-30°	991.3	4.7
30°-40°	1648.3	7.9
40°-50°	2877.9	13.7
50°-60°	5622.4	26.8
60°-70°	6523.3	31.1
70°-80°	2375.5	11.3
80°-90°	167.4	0.8
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°	20985.0	100.0
0°-180°	20985.0	100.0



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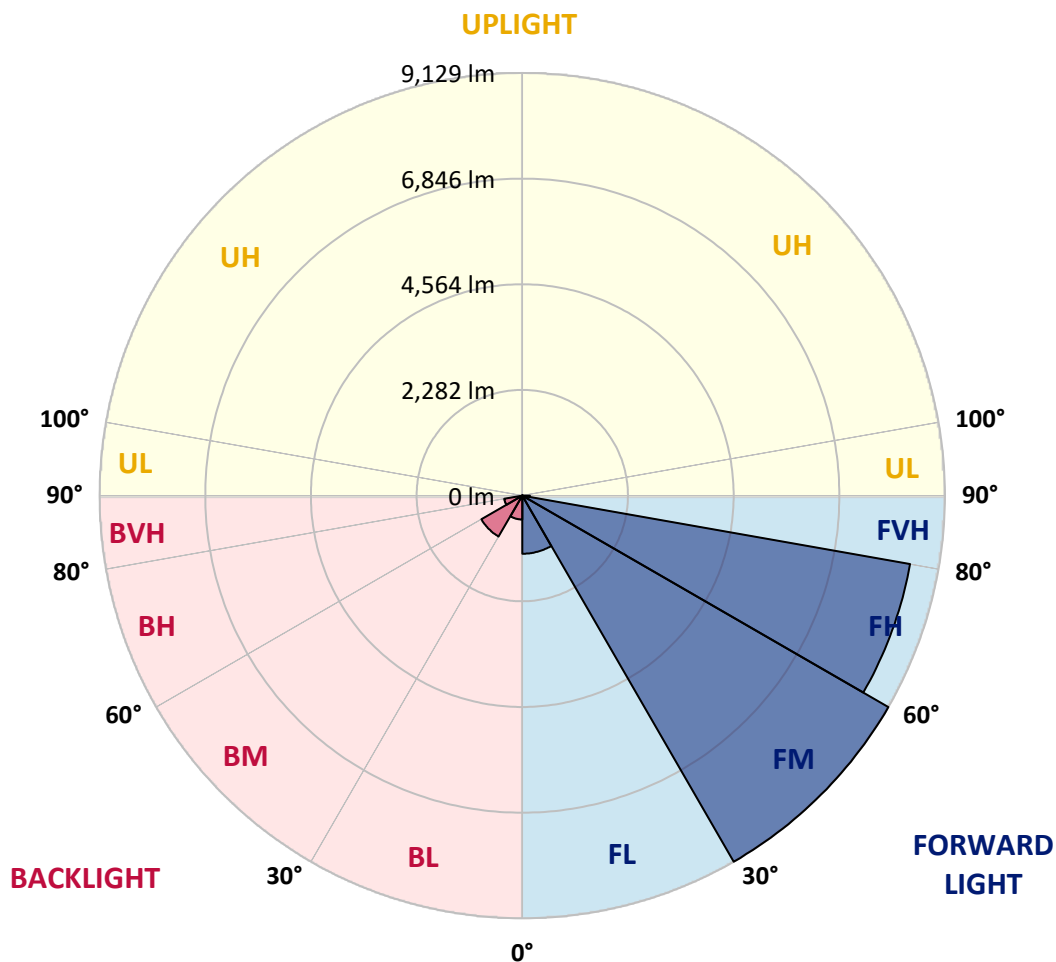
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.1	6.0			
FM	(30°-60°)	9128.5	43.5			
FH	(60°-80°)	8502.8	40.5			G4/12000
FVH	(80°-90°)	165.1	0.8			G2/225
BL	(0°-30°)	515.1	2.5	B2/1000		
BM	(30°-60°)	1020.1	4.9	B2/2500		
BH	(60°-80°)	395.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	2198.4	2188.8	2184.0	2158.3	2139.1	2115.0	2115.0	2084.6	2049.3	2010.8	1975.5
5°	2443.8	2427.7	2406.9	2384.4	2339.5	2275.4	2275.4	2211.2	2137.5	2071.7	1999.6
7.5°	2679.5	2665.0	2629.8	2586.5	2512.7	2445.4	2440.5	2347.5	2259.3	2159.9	2057.3
10°	2886.3	2875.1	2844.6	2761.2	2684.3	2596.1	2594.5	2490.3	2387.6	2265.8	2139.1
12.5°	3030.6	3032.2	2992.2	2912.0	2812.6	2729.2	2722.8	2620.1	2512.7	2381.2	2225.7
15°	3133.3	3133.3	3091.6	3001.8	2912.0	2838.2	2831.8	2742.0	2631.4	2488.7	2320.3
17.5°	3162.1	3171.7	3126.8	3046.7	2974.5	2910.4	2908.8	2833.4	2745.2	2607.3	2416.5
20°	3150.9	3160.5	3125.2	3062.7	3013.0	2976.1	2971.3	2940.8	2859.1	2729.2	2519.1
22.5°	3126.8	3136.5	3110.8	3073.9	3049.9	3061.1	3053.1	3078.7	3035.4	2878.3	2641.0
25°	3131.7	3141.3	3122.0	3101.2	3122.0	3191.0	3211.8	3322.5	3284.0	3067.5	2772.5
27.5°	3282.4	3301.6	3274.4	3284.0	3357.8	3518.1	3558.2	3749.0	3579.0	3308.0	2977.7
30°	3617.5	3604.7	3553.4	3599.9	3856.4	4196.4	4185.2	4154.7	3888.5	3585.5	3221.5
32.5°	3922.2	3911.0	3907.8	4108.2	4573.2	4738.4	4730.4	4435.3	4165.9	3902.9	3462.0
35°	4045.7	4002.4	3992.7	4478.6	5256.3	5038.2	4988.5	4550.8	4502.7	4249.3	3707.3
37.5°	4417.7	4387.2	4238.1	4539.5	4983.7	4911.6	4873.1	4749.6	4861.8	4555.6	3984.7
40°	5184.2	5099.2	4964.5	4669.4	4597.3	4627.7	4666.2	5004.6	5286.8	4974.1	4355.1
42.5°	6136.6	6117.4	5867.3	5317.2	4776.9	4818.6	4868.3	5536.9	5897.7	5604.3	4959.7
45°	7279.9	7307.2	6946.4	6297.0	5588.2	5623.5	5695.7	6322.6	6725.1	6584.0	5910.5
47.5°	8319.0	8298.2	8176.3	7501.2	6847.0	6768.4	6885.5	7331.3	7870.0	7892.5	7090.7
50°	9364.5	9475.2	9294.0	9029.4	8543.5	8378.4	8335.1	8553.1	9374.1	9266.7	8508.2
52.5°	10867.0	10924.7	10584.8	10517.4	10628.1	10092.5	10049.2	10102.1	10836.5	10467.7	9569.8
55°	11811.5	11777.8	11651.1	12177.1	12614.8	11946.2	11891.6	11678.4	12050.4	11316.0	10591.2
57.5°	12109.7	12157.8	12452.9	13403.8	14439.6	13872.0	13772.6	13166.4	12925.9	12106.5	11530.9
60°	11976.6	12064.8	12701.4	14115.7	15552.5	15467.5	15382.5	14364.3	13554.5	12767.2	12189.9
62.5°	11029.0	11152.4	12170.7	13989.0	15929.3	16460.1	16354.2	15111.5	13973.0	13087.9	12305.4
65°	9242.6	9334.0	10796.4	12839.3	15393.7	16800.0	16761.5	15345.6	14038.7	12794.4	11514.8
67.5°	6588.8	6899.9	8254.9	10820.5	13809.4	16219.5	16285.3	15065.0	13421.4	11526.0	9536.1
70°	4141.9	4353.5	5325.3	7746.6	11070.6	14229.6	14446.0	13780.6	11647.9	8984.5	6383.6
72.5°	1975.5	2132.7	2825.4	4903.5	7813.9	11195.7	11367.3	11312.8	9006.9	5660.4	3293.6
75°	880.3	939.7	1348.6	2503.1	5044.6	7525.3	7969.5	8043.2	5628.3	2769.3	1281.2
77.5°	449.0	450.6	631.8	1212.3	2519.1	4489.8	4578.0	4836.2	3051.5	1220.3	445.8
80°	238.9	255.0	335.1	572.5	1306.9	2211.2	2200.0	2418.1	1353.4	598.1	149.1
82.5°	107.4	118.7	189.2	299.9	638.2	838.6	904.4	989.4	580.5	381.6	65.7
85°	32.1	38.5	93.0	150.7	230.9	242.1	271.0	349.6	328.7	271.0	33.7
87.5°	4.8	4.8	38.5	41.7	33.7	43.3	44.9	49.7	105.8	99.4	17.6
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°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	1956.3	1945.1	1905.0	1871.3	1842.4	1824.8	1804.0	1791.1	1784.7	1779.9	1781.5
5°	1964.3	1937.0	1868.1	1813.6	1771.9	1727.0	1696.5	1678.9	1670.9	1658.0	1658.0
7.5°	2009.2	1965.9	1869.7	1786.3	1714.2	1653.2	1595.5	1574.6	1560.2	1557.0	1553.8
10°	2073.3	2018.8	1887.3	1771.9	1669.3	1585.9	1504.1	1431.9	1375.8	1342.1	1337.3
12.5°	2153.5	2074.9	1914.6	1762.3	1630.8	1483.2	1266.8	1120.9	1023.0	992.6	997.4
15°	2227.3	2142.3	1941.9	1754.2	1560.2	1229.9	984.6	817.8	768.1	763.3	764.9
17.5°	2315.5	2214.5	1973.9	1743.0	1366.2	939.7	731.2	686.3	695.9	712.0	710.4
20°	2406.9	2291.4	2012.4	1675.7	1090.4	707.1	646.2	651.0	665.5	679.9	683.1
22.5°	2504.7	2379.6	2057.3	1513.7	832.2	615.7	612.5	619.0	633.4	649.4	652.6
25°	2639.4	2490.3	2091.0	1302.1	630.2	569.2	575.7	586.9	599.7	617.4	620.6
27.5°	2812.6	2639.4	2108.6	1026.2	545.2	527.6	529.2	545.2	561.2	577.3	577.3
30°	3037.1	2817.4	2073.3	776.1	503.5	487.5	481.1	490.7	511.5	527.6	529.2
32.5°	3237.5	2985.7	1980.3	593.3	473.0	450.6	434.6	436.2	444.2	453.8	455.4
35°	3437.9	3149.3	1821.6	498.7	441.0	415.3	391.3	378.4	372.0	367.2	372.0
37.5°	3694.5	3352.9	1609.9	453.8	413.7	381.6	348.0	320.7	298.3	283.8	287.0
40°	4024.8	3635.2	1359.8	424.9	388.0	349.6	304.7	269.4	230.9	218.1	211.7
42.5°	4570.0	4063.3	1096.8	400.9	362.4	315.9	259.8	211.7	176.4	163.6	166.8
45°	5431.1	4603.7	845.1	375.2	336.7	279.0	218.1	166.8	137.9	131.5	134.7
47.5°	6572.8	5302.8	651.0	346.4	304.7	238.9	171.6	131.5	113.8	112.2	110.6
50°	7647.1	5953.8	543.6	314.3	266.2	198.8	141.1	110.6	99.4	97.8	97.8
52.5°	8618.9	6420.5	442.6	277.4	224.5	163.6	118.7	97.8	88.2	83.4	83.4
55°	9483.2	6725.1	359.2	232.5	176.4	129.9	102.6	88.2	77.0	70.6	69.0
57.5°	10135.8	6762.0	269.4	186.0	131.5	101.0	88.2	77.0	64.1	56.1	52.9
60°	10414.8	6442.9	198.8	141.1	97.8	80.2	70.6	62.5	48.1	40.1	38.5
62.5°	10134.2	5822.4	147.5	107.4	75.4	59.3	49.7	46.5	33.7	24.1	22.4
65°	9128.8	4926.0	117.1	81.8	56.1	43.3	32.1	30.5	20.8	11.2	9.6
67.5°	7313.6	3858.0	93.0	60.9	40.1	28.9	20.8	19.2	11.2	3.2	3.2
70°	4756.0	2466.2	75.4	44.9	25.7	19.2	12.8	9.6	6.4	1.6	0.0
72.5°	2352.4	1152.9	60.9	35.3	17.6	9.6	4.8	3.2	4.8	0.0	0.0
75°	912.4	410.5	44.9	24.1	9.6	4.8	3.2	0.0	1.6	0.0	0.0
77.5°	303.1	136.3	27.3	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	112.2	52.9	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	20.8	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	12.8	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	9.6	6.4	4.8	3.2	1.6	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)