

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: P453492

Luminaire Tested: **GALN-SA4C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18239 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

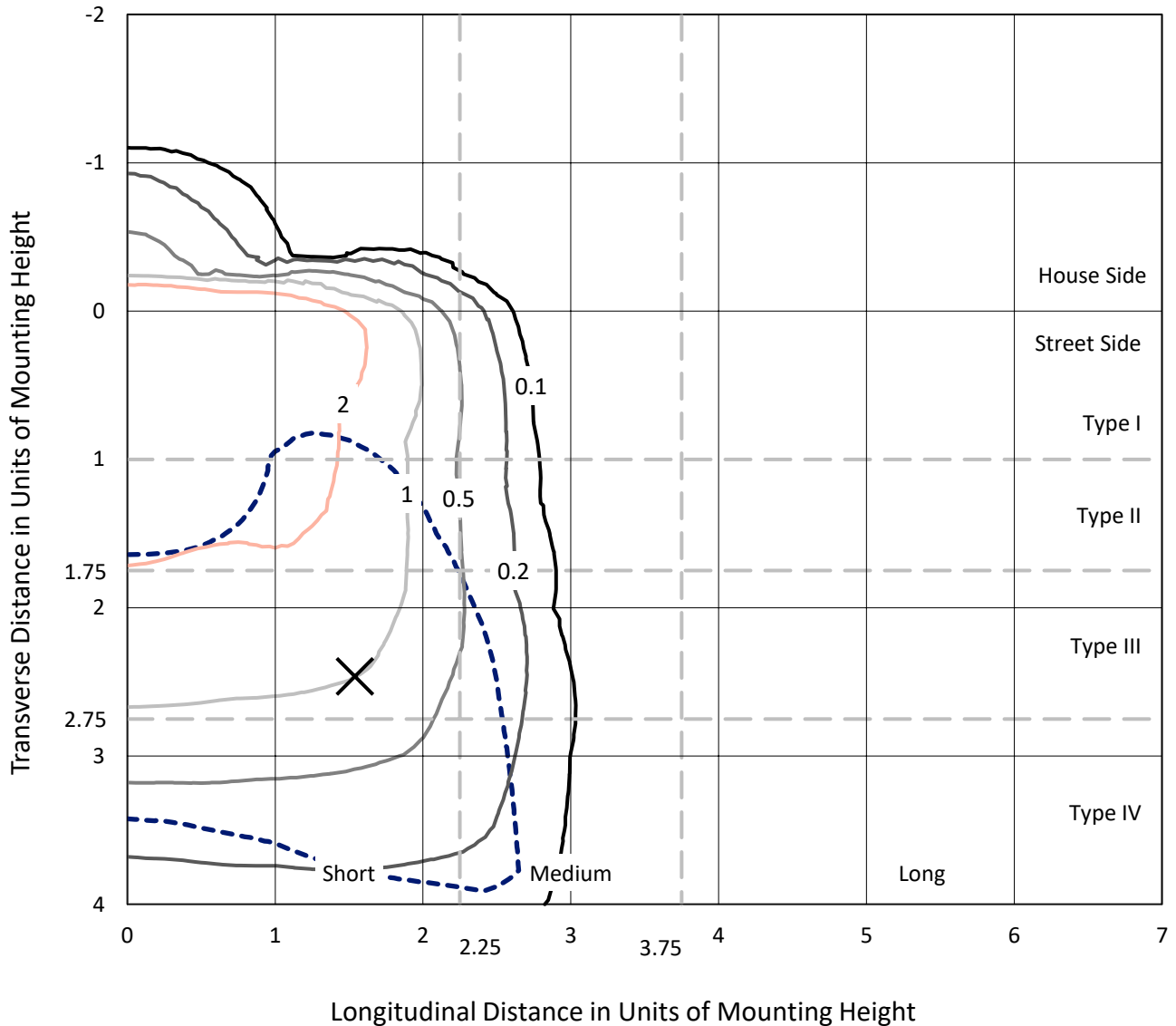
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

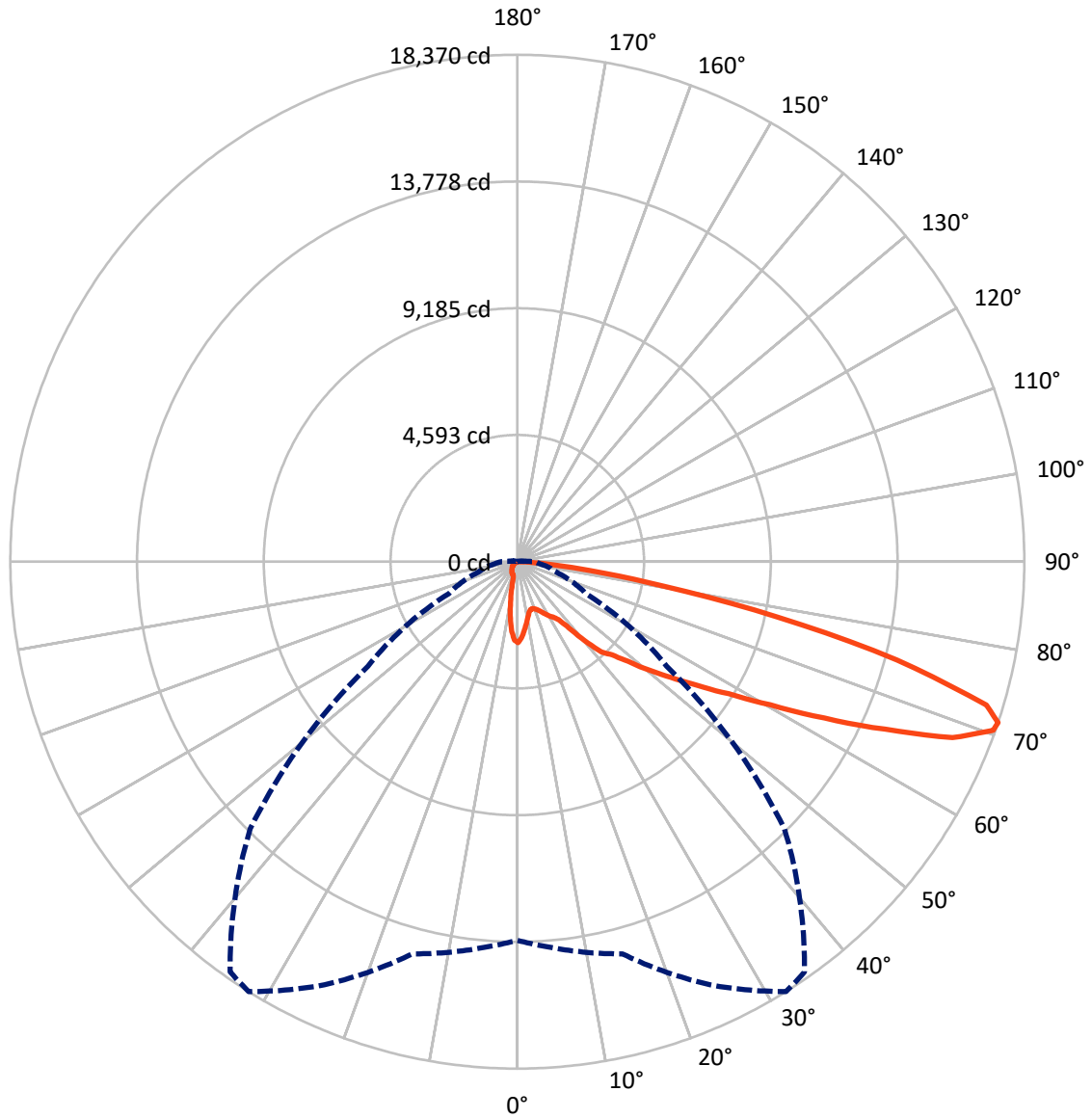
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.7	0.0	1527.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16711.3	0.0	16711.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	18239.0	0.0	18239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	1.3
10°-20°	517.6	2.8
20°-30°	805.3	4.4
30°-40°	1341.6	7.4
40°-50°	2495.5	13.7
50°-60°	4006.7	22.0
60°-70°	5389.2	29.5
70°-80°	3197.5	17.5
80°-90°	247.1	1.4
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°	18239.0	100.0
0°-180°	18239.0	100.0



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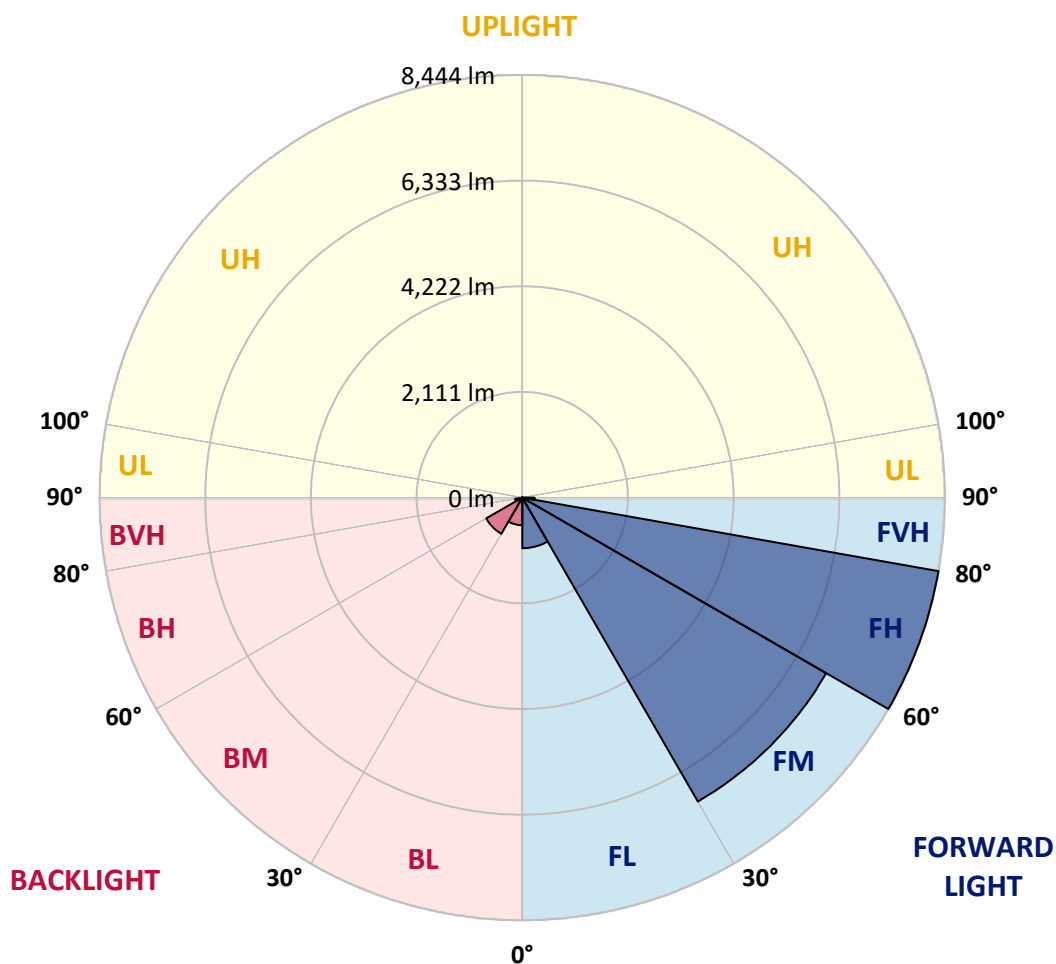
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.9	5.5			
FM	(30°-60°)	7010.4	38.4			
FH	(60°-80°)	8443.8	46.3			G4/12000
FVH	(80°-90°)	246.2	1.3			G3/500
BL	(0°-30°)	550.5	3.0	B2/1000		
BM	(30°-60°)	833.4	4.6	B1/1000		
BH	(60°-80°)	142.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	2720.3	2748.3	2744.1	2753.9	2777.7	2787.5	2814.1	2843.5	2884.1	2912.1	2930.3
5°	2436.1	2457.1	2459.9	2508.9	2532.7	2559.3	2637.7	2723.1	2818.3	2893.9	2944.3
7.5°	2132.3	2143.5	2165.9	2230.3	2290.5	2317.1	2436.1	2584.5	2734.3	2875.7	2966.7
10°	1881.7	1894.3	1934.9	2003.5	2059.5	2094.5	2259.7	2445.9	2655.9	2865.9	2998.9
12.5°	1738.9	1745.9	1761.3	1822.9	1894.3	1932.1	2109.9	2322.7	2592.9	2870.1	3053.5
15°	1729.1	1726.3	1708.1	1733.3	1797.7	1836.9	2010.5	2238.7	2536.9	2884.1	3117.9
17.5°	1780.9	1773.9	1730.5	1730.5	1783.7	1815.9	1968.5	2193.9	2508.9	2916.3	3208.9
20°	1860.7	1849.5	1778.1	1772.5	1824.3	1857.9	1993.7	2196.7	2514.5	2976.5	3330.7
22.5°	1961.5	1948.9	1841.1	1843.9	1899.9	1933.5	2066.5	2247.1	2549.5	3050.7	3460.9
25°	2093.1	2079.1	1951.7	1946.1	2004.9	2034.3	2174.3	2336.7	2598.5	3143.1	3631.7
27.5°	2268.1	2238.7	2086.1	2077.7	2140.7	2178.5	2304.5	2457.1	2685.3	3270.5	3861.4
30°	2412.3	2380.1	2234.5	2212.1	2279.3	2308.7	2438.9	2619.5	2856.1	3493.1	4179.2
32.5°	2601.3	2553.7	2382.9	2324.1	2395.5	2433.3	2633.5	2921.9	3109.5	3728.3	4557.2
35°	3026.9	2997.5	2788.9	2583.1	2578.9	2626.5	2920.5	3227.1	3369.9	4095.2	5072.4
37.5°	3635.9	3614.9	3393.7	3117.9	3038.1	3015.7	3269.1	3563.1	3785.7	4599.2	5671.6
40°	4343.0	4294.0	4091.0	3857.2	3753.5	3687.7	3680.7	4063.0	4329.0	5283.8	6296.0
42.5°	4849.8	4760.2	4513.8	4497.0	4474.6	4406.0	4207.2	4793.8	5030.4	6020.2	6963.9
45°	5381.8	5246.0	4879.2	4816.2	4807.8	4803.6	5002.4	5659.0	5794.8	6818.3	7649.9
47.5°	5794.8	5687.0	5386.0	5358.0	5393.0	5488.2	6053.8	6577.5	6549.5	7529.5	8225.3
50°	6345.1	6263.8	5929.2	5982.4	6163.0	6318.5	7239.7	7578.5	7169.7	8089.5	8643.9
52.5°	6994.7	6844.9	6534.1	6678.3	6955.5	7214.5	8498.3	8454.9	7605.1	8510.9	8956.2
55°	7557.5	7451.1	7344.7	7494.5	7908.9	8232.3	9635.2	9111.6	7921.5	8849.8	9093.4
57.5°	8509.5	8484.3	8375.1	8527.7	9030.4	9366.4	10653.0	9621.2	8124.5	9026.2	8932.4
60°	9918.0	9877.4	9674.4	9869.0	10524.2	11052.0	11591.1	10079.0	8170.7	8957.6	8468.9
62.5°	11612.1	11473.5	11299.8	11586.9	12485.7	12718.1	12474.5	10350.6	7998.5	8411.5	7351.7
65°	13194.1	13051.3	13055.5	13660.3	14639.0	14797.2	13504.9	10310.0	7494.5	7043.7	5422.4
67.5°	14405.2	14381.4	14552.2	15732.4	17012.1	16902.9	14426.2	9702.4	6000.6	4565.6	2881.3
70°	14466.8	14513.0	15003.0	16995.3	18294.5	18120.9	14347.8	7886.5	3740.9	2100.1	1135.4
71°	13721.9	14032.8	14710.4	16956.1	18370.1	18144.7	13686.9	6605.5	2744.1	1464.5	819.0
72.5°	11693.3	11857.1	13321.5	15957.8	17772.3	17290.7	12011.1	4630.0	1757.1	896.0	470.4
75°	6440.3	6843.5	8921.2	12519.3	14214.8	13791.9	7827.7	2199.5	876.4	490.0	194.6
77.5°	3066.1	2987.7	4352.8	7445.5	9638.0	9615.6	3944.0	977.2	511.0	331.8	98.0
80°	876.4	985.6	1666.1	3539.3	5351.0	5409.8	1514.9	471.8	354.2	259.0	50.4
82.5°	264.6	270.2	611.8	1565.3	2661.5	2508.9	568.4	240.8	254.8	205.8	29.4
85°	46.2	57.4	180.6	551.6	1015.0	770.0	142.8	114.8	168.0	135.8	16.8
87.5°	2.8	4.2	60.2	63.0	89.6	51.8	25.2	16.8	36.4	36.4	9.8
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°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	2942.9	2951.3	2945.7	2933.1	2912.1	2886.9	2853.3	2825.3	2801.5	2788.9	2804.3
5°	2961.1	2972.3	2944.3	2881.3	2786.1	2682.5	2564.9	2473.9	2402.5	2380.1	2371.7
7.5°	2989.1	2996.1	2920.5	2780.5	2578.9	2333.9	2119.7	1939.1	1799.1	1757.1	1695.5
10°	3025.5	3021.3	2878.5	2618.1	2263.9	1895.7	1563.9	1317.5	1131.2	1064.0	1058.4
12.5°	3081.5	3059.1	2825.3	2396.9	1888.7	1407.1	996.8	779.8	662.2	623.0	614.6
15°	3151.5	3098.3	2741.3	2137.9	1446.3	908.6	614.6	548.8	533.4	530.6	527.8
17.5°	3234.1	3150.1	2630.7	1820.1	1016.4	589.4	513.8	512.4	513.8	511.0	509.6
20°	3346.1	3204.7	2499.1	1443.5	672.0	497.0	490.0	490.0	491.4	490.0	490.0
22.5°	3465.1	3269.1	2336.7	1101.8	506.8	471.8	470.4	473.2	476.0	474.6	474.6
25°	3612.1	3353.1	2122.5	754.6	453.6	450.8	452.2	457.8	463.4	464.8	463.4
27.5°	3825.0	3456.7	1892.9	519.4	415.8	418.6	432.6	446.6	455.0	456.4	456.4
30°	4064.4	3571.5	1593.3	421.4	385.0	385.0	401.8	428.4	446.6	449.4	450.8
32.5°	4372.4	3704.5	1261.4	379.4	355.6	352.8	368.2	400.4	434.0	443.8	443.8
35°	4753.2	3861.4	938.0	352.8	334.6	327.6	336.0	362.6	406.0	434.0	436.8
37.5°	5199.8	4009.8	686.0	329.0	315.0	305.2	310.8	331.8	366.8	408.8	420.0
40°	5612.8	4141.4	512.4	309.4	295.4	288.4	292.6	302.4	331.8	371.0	378.0
42.5°	6063.6	4243.6	407.4	288.4	275.8	273.0	273.0	277.2	296.8	319.2	320.6
45°	6513.1	4280.0	341.6	263.2	254.8	257.6	256.2	253.4	261.8	259.0	259.0
47.5°	6833.7	4236.6	282.8	239.4	239.4	243.6	236.6	226.8	222.6	205.8	207.2
50°	7053.5	4078.4	232.4	211.4	222.6	228.2	214.2	198.8	183.4	165.2	161.0
52.5°	7144.5	3797.0	190.4	175.0	197.4	204.4	187.6	169.4	145.6	130.2	126.0
55°	7085.7	3449.7	158.2	142.8	166.6	175.0	158.2	137.2	110.6	93.8	91.0
57.5°	6826.7	3035.3	134.4	113.4	133.0	138.6	127.4	105.0	78.4	61.6	61.6
60°	6378.7	2606.9	109.2	89.6	99.4	107.8	96.6	75.6	53.2	37.8	35.0
62.5°	5470.0	2116.9	88.2	70.0	70.0	77.0	67.2	54.6	33.6	19.6	18.2
65°	3949.6	1451.9	70.0	51.8	50.4	50.4	42.0	36.4	19.6	8.4	5.6
67.5°	2146.3	819.0	56.0	39.2	35.0	33.6	26.6	21.0	8.4	1.4	0.0
70°	844.2	315.0	43.4	26.6	22.4	21.0	14.0	9.8	5.6	0.0	0.0
71°	572.6	217.0	37.8	22.4	18.2	15.4	11.2	8.4	4.2	0.0	0.0
72.5°	327.6	134.4	29.4	16.8	14.0	11.2	8.4	5.6	4.2	0.0	0.0
75°	142.8	68.6	18.2	12.6	9.8	7.0	5.6	4.2	1.4	0.0	0.0
77.5°	72.8	37.8	12.6	9.8	5.6	4.2	2.8	1.4	0.0	0.0	0.0
80°	40.6	19.6	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	22.4	11.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.8	0.0	0.0	0.0	0.0	1.4	1.4	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)