

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: P454188

Luminaire Tested: **GALN-SA5B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454188  
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-SA5B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 18687 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

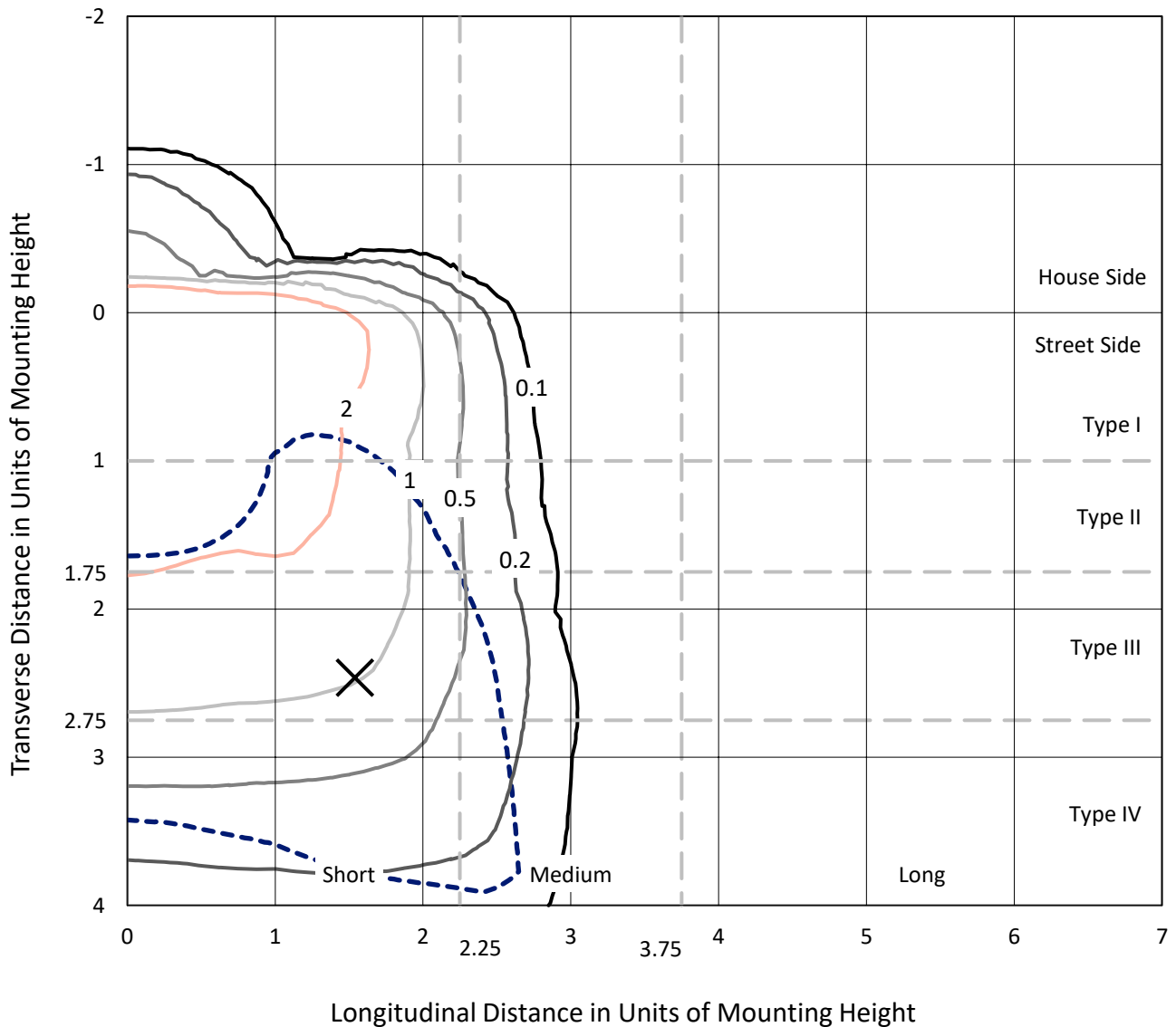
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

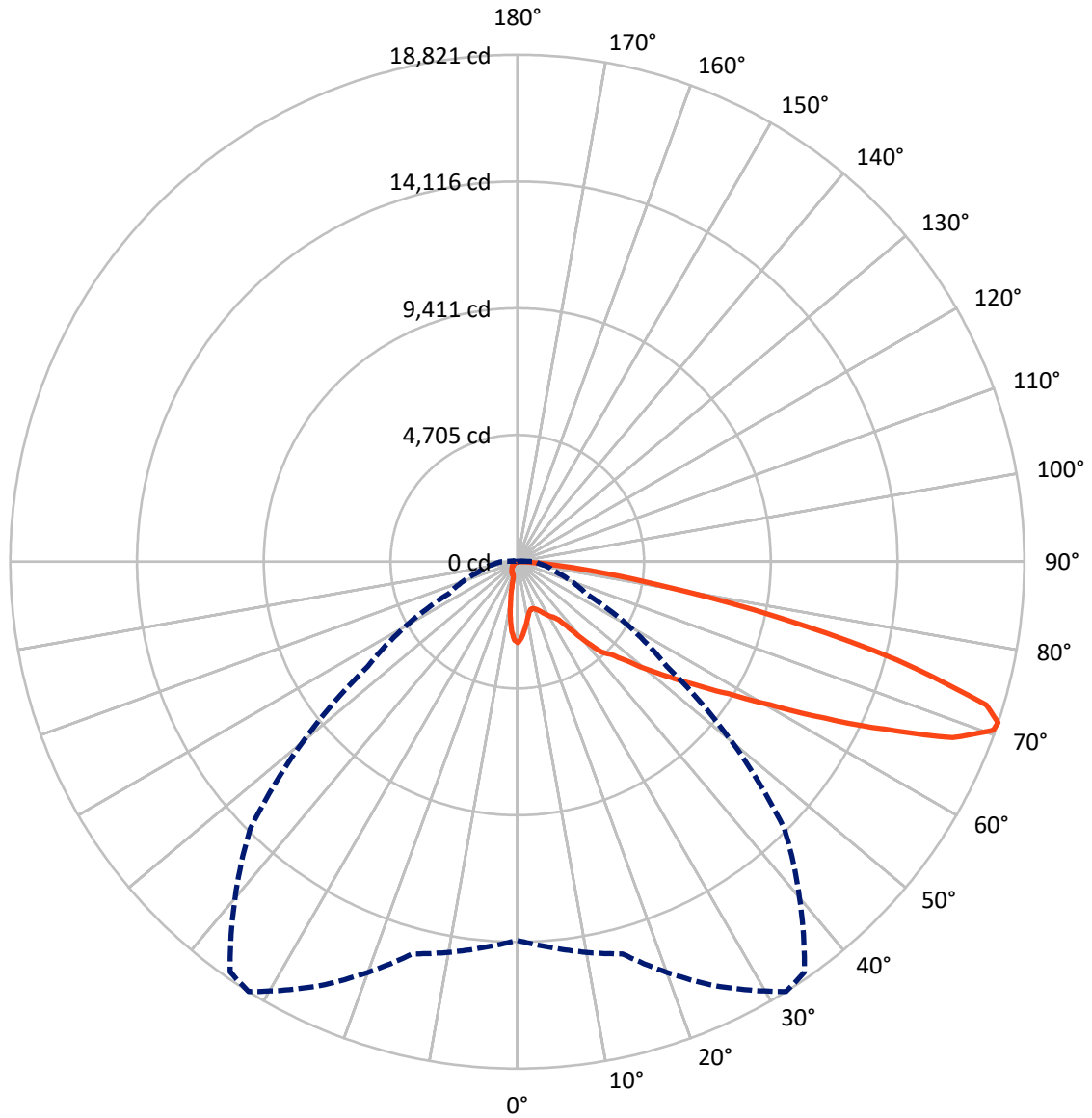
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	1565.2	0.0	1565.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	17121.8	0.0	17121.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	18687.0	0.0	18687.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.4	1.3
10°-20°	530.3	2.8
20°-30°	825.0	4.4
30°-40°	1374.5	7.4
40°-50°	2556.8	13.7
50°-60°	4105.1	22.0
60°-70°	5521.6	29.5
70°-80°	3276.0	17.5
80°-90°	253.2	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°	18687.0	100.0
0°-180°	18687.0	100.0



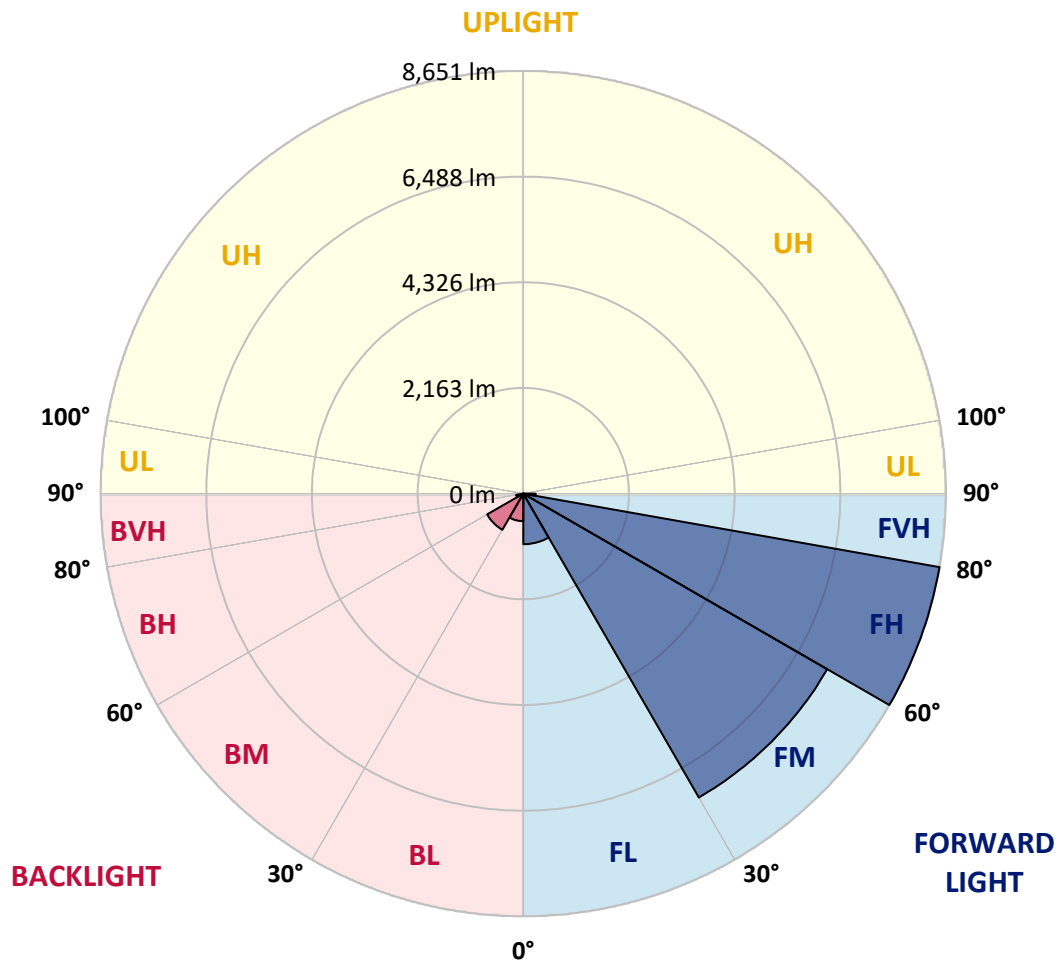
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1035.8	5.5			
FM	(30°-60°)	7182.6	38.4			
FH	(60°-80°)	8651.2	46.3			G4/12000
FVH	(80°-90°)	252.2	1.3			G3/500
BL	(0°-30°)	564.0	3.0	B2/1000		
BM	(30°-60°)	853.9	4.6	B1/1000		
BH	(60°-80°)	146.4	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°	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2
2.5°	2787.1	2815.8	2811.5	2821.6	2845.9	2856.0	2883.2	2913.4	2955.0	2983.6	3002.3
5°	2495.9	2517.5	2520.3	2570.5	2594.9	2622.2	2702.5	2790.0	2887.5	2965.0	3016.6
7.5°	2184.7	2196.1	2219.1	2285.1	2346.8	2374.0	2495.9	2648.0	2801.5	2946.3	3039.6
10°	1927.9	1940.8	1982.4	2052.7	2110.1	2145.9	2315.2	2506.0	2721.1	2936.3	3072.6
12.5°	1781.6	1788.8	1804.5	1867.6	1940.8	1979.5	2161.7	2379.7	2656.6	2940.6	3128.5
15°	1771.5	1768.7	1750.0	1775.8	1841.8	1882.0	2059.9	2293.7	2599.2	2955.0	3194.5
17.5°	1824.6	1817.4	1773.0	1773.0	1827.5	1860.5	2016.8	2247.8	2570.5	2987.9	3287.7
20°	1906.4	1894.9	1821.7	1816.0	1869.1	1903.5	2042.6	2250.6	2576.3	3049.6	3412.5
22.5°	2009.7	1996.7	1886.3	1889.2	1946.5	1981.0	2117.2	2302.3	2612.1	3125.7	3545.9
25°	2144.5	2130.2	1999.6	1993.9	2054.1	2084.2	2227.7	2394.1	2662.3	3220.3	3720.9
27.5°	2323.8	2293.7	2137.3	2128.7	2193.3	2232.0	2361.1	2517.5	2751.3	3350.9	3956.2
30°	2471.5	2438.6	2289.4	2266.4	2335.3	2365.4	2498.8	2683.8	2926.3	3578.9	4281.8
32.5°	2665.2	2616.4	2441.4	2381.2	2454.3	2493.1	2698.2	2993.7	3185.9	3819.9	4669.1
35°	3101.3	3071.1	2857.4	2646.6	2642.2	2691.0	2992.3	3306.4	3452.7	4195.8	5197.0
37.5°	3725.3	3703.7	3477.1	3194.5	3112.7	3089.8	3349.4	3650.7	3878.7	4712.2	5810.9
40°	4449.6	4399.4	4191.4	3951.9	3845.7	3778.3	3771.2	4162.8	4435.3	5413.6	6450.7
42.5°	4968.9	4877.1	4624.6	4607.4	4584.5	4514.2	4310.5	4911.5	5154.0	6168.1	7134.9
45°	5514.0	5374.9	4999.0	4934.5	4925.9	4921.6	5125.3	5798.0	5937.2	6985.7	7837.8
47.5°	5937.2	5826.7	5518.3	5489.6	5525.5	5623.0	6202.5	6739.0	6710.3	7714.4	8427.4
50°	6500.9	6417.7	6074.9	6129.4	6314.4	6473.6	7417.5	7764.6	7345.8	8288.2	8856.3
52.5°	7166.5	7013.0	6694.6	6842.3	7126.3	7391.7	8707.1	8662.6	7791.9	8720.0	9176.1
55°	7743.1	7634.1	7525.1	7678.6	8103.2	8434.5	9871.8	9335.4	8116.1	9067.1	9316.7
57.5°	8718.6	8692.7	8580.8	8737.2	9252.2	9596.4	10914.7	9857.5	8324.1	9247.9	9151.8
60°	10161.6	10120.0	9912.0	10111.4	10782.7	11323.5	11875.8	10326.6	8371.4	9177.6	8677.0
62.5°	11897.3	11755.3	11577.4	11871.5	12792.4	13030.5	12780.9	10604.8	8195.0	8618.1	7532.3
65°	13518.2	13371.9	13376.2	13995.9	14998.6	15160.6	13836.7	10563.3	7678.6	7216.7	5555.6
67.5°	14759.0	14734.6	14909.6	16118.9	17429.9	17318.0	14780.5	9940.7	6148.0	4677.7	2952.1
70°	14822.1	14869.5	15371.5	17412.7	18743.9	18566.0	14700.2	8080.2	3832.8	2151.7	1163.3
71°	14059.0	14377.4	15071.7	17372.6	18821.3	18590.4	14023.1	6767.7	2811.5	1500.4	839.2
72.5°	11980.5	12148.3	13648.7	16349.8	18208.8	17715.4	12306.1	4743.7	1800.2	918.0	482.0
75°	6598.4	7011.6	9140.3	12826.8	14563.9	14130.7	8020.0	2253.5	898.0	502.1	199.4
77.5°	3141.4	3061.1	4459.7	7628.4	9874.7	9851.8	4040.8	1001.2	523.6	340.0	100.4
80°	898.0	1009.8	1707.0	3626.3	5482.4	5542.7	1552.1	483.4	362.9	265.4	51.6
82.5°	271.1	276.8	626.9	1603.7	2726.9	2570.5	582.4	246.7	261.1	210.9	30.1
85°	47.3	58.8	185.0	565.2	1040.0	788.9	146.3	117.6	172.1	139.1	17.2
87.5°	2.9	4.3	61.7	64.6	91.8	53.1	25.8	17.2	37.3	37.3	10.0
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°	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2
2.5°	3015.2	3023.8	3018.1	3005.2	2983.6	2957.8	2923.4	2894.7	2870.3	2857.4	2873.2
5°	3033.9	3045.3	3016.6	2952.1	2854.5	2748.4	2627.9	2534.7	2461.5	2438.6	2429.9
7.5°	3062.5	3069.7	2992.3	2848.8	2642.2	2391.2	2171.7	1986.7	1843.3	1800.2	1737.1
10°	3099.8	3095.5	2949.2	2682.4	2319.5	1942.2	1602.3	1349.8	1159.0	1090.2	1084.4
12.5°	3157.2	3134.3	2894.7	2455.8	1935.1	1441.6	1021.3	799.0	678.5	638.3	629.7
15°	3228.9	3174.4	2808.6	2190.4	1481.8	931.0	629.7	562.3	546.5	543.7	540.8
17.5°	3313.6	3227.5	2695.3	1864.8	1041.4	603.9	526.4	525.0	526.4	523.6	522.1
20°	3428.3	3283.4	2560.5	1478.9	688.5	509.2	502.1	502.1	503.5	502.1	502.1
22.5°	3550.3	3349.4	2394.1	1128.9	519.3	483.4	482.0	484.8	487.7	486.3	486.3
25°	3700.9	3435.5	2174.6	773.2	464.8	461.9	463.3	469.1	474.8	476.2	474.8
27.5°	3918.9	3541.6	1939.4	532.2	426.0	428.9	443.2	457.6	466.2	467.6	467.6
30°	4164.2	3659.3	1632.4	431.8	394.5	394.5	411.7	438.9	457.6	460.5	461.9
32.5°	4479.8	3795.5	1292.4	388.7	364.3	361.5	377.3	410.3	444.7	454.7	454.7
35°	4869.9	3956.2	961.1	361.5	342.8	335.7	344.3	371.5	416.0	444.7	447.5
37.5°	5327.5	4108.2	702.9	337.1	322.8	312.7	318.4	340.0	375.8	418.9	430.3
40°	5750.7	4243.1	525.0	317.0	302.7	295.5	299.8	309.8	340.0	380.1	387.3
42.5°	6212.6	4347.8	417.4	295.5	282.6	279.7	279.7	284.0	304.1	327.1	328.5
45°	6673.0	4385.1	350.0	269.7	261.1	263.9	262.5	259.6	268.2	265.4	265.4
47.5°	7001.5	4340.6	289.8	245.3	245.3	249.6	242.4	232.4	228.1	210.9	212.3
50°	7226.7	4178.5	238.1	216.6	228.1	233.8	219.5	203.7	187.9	169.3	165.0
52.5°	7320.0	3890.2	195.1	179.3	202.3	209.4	192.2	173.6	149.2	133.4	129.1
55°	7259.7	3534.5	162.1	146.3	170.7	179.3	162.1	140.6	113.3	96.1	93.2
57.5°	6994.4	3109.9	137.7	116.2	136.3	142.0	130.5	107.6	80.3	63.1	63.1
60°	6535.3	2670.9	111.9	91.8	101.8	110.5	99.0	77.5	54.5	38.7	35.9
62.5°	5604.4	2168.9	90.4	71.7	71.7	78.9	68.9	55.9	34.4	20.1	18.6
65°	4046.6	1487.5	71.7	53.1	51.6	51.6	43.0	37.3	20.1	8.6	5.7
67.5°	2199.0	839.2	57.4	40.2	35.9	34.4	27.3	21.5	8.6	1.4	0.0
70°	865.0	322.8	44.5	27.3	23.0	21.5	14.3	10.0	5.7	0.0	0.0
71°	586.7	222.3	38.7	23.0	18.6	15.8	11.5	8.6	4.3	0.0	0.0
72.5°	335.7	137.7	30.1	17.2	14.3	11.5	8.6	5.7	4.3	0.0	0.0
75°	146.3	70.3	18.6	12.9	10.0	7.2	5.7	4.3	1.4	0.0	0.0
77.5°	74.6	38.7	12.9	10.0	5.7	4.3	2.9	1.4	0.0	0.0	0.0
80°	41.6	20.1	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
82.5°	23.0	11.5	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	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)