

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: P454884

Luminaire Tested: **GALN-SA6A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454884  
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-SA6A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA 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: 17784 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

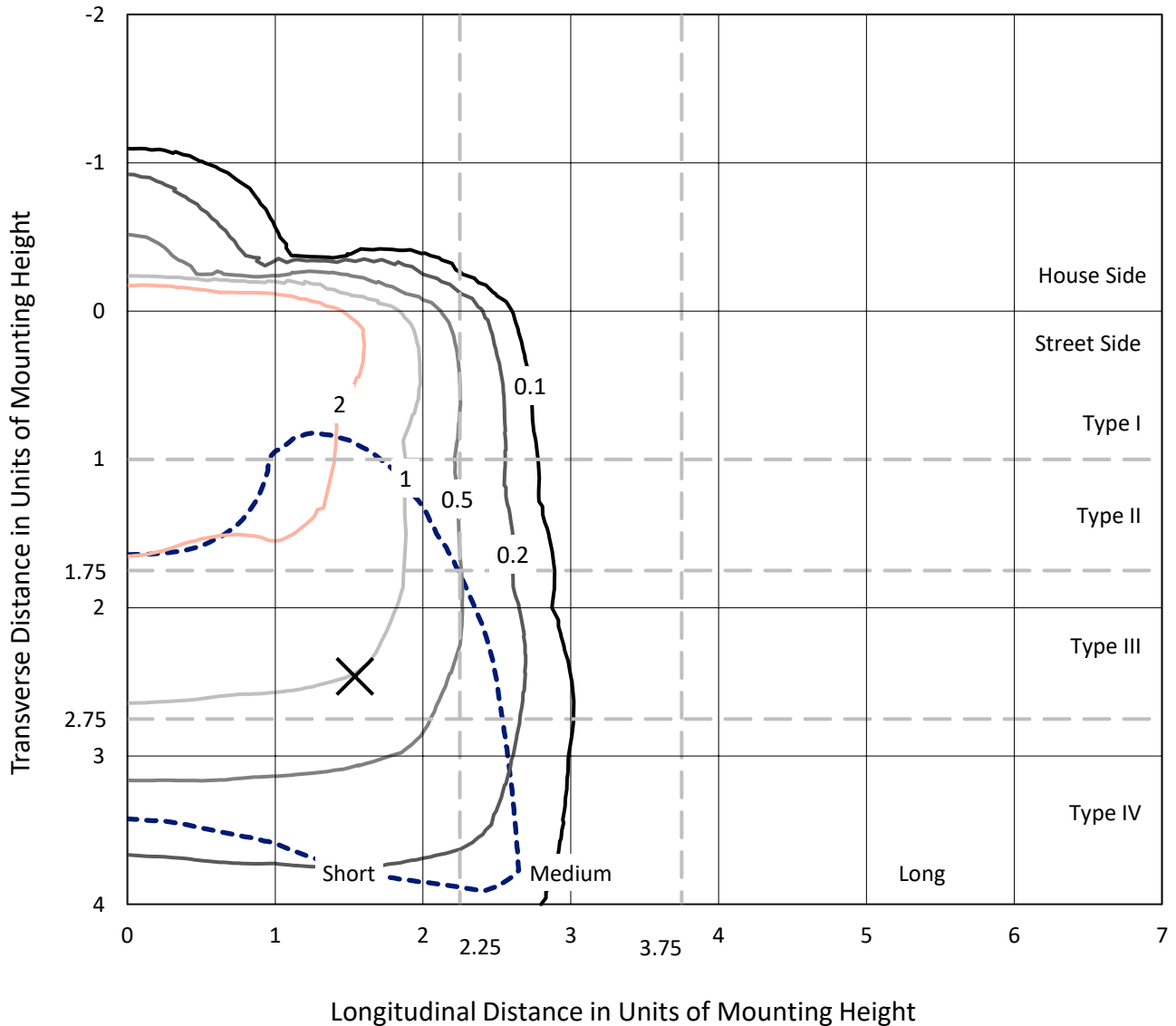
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

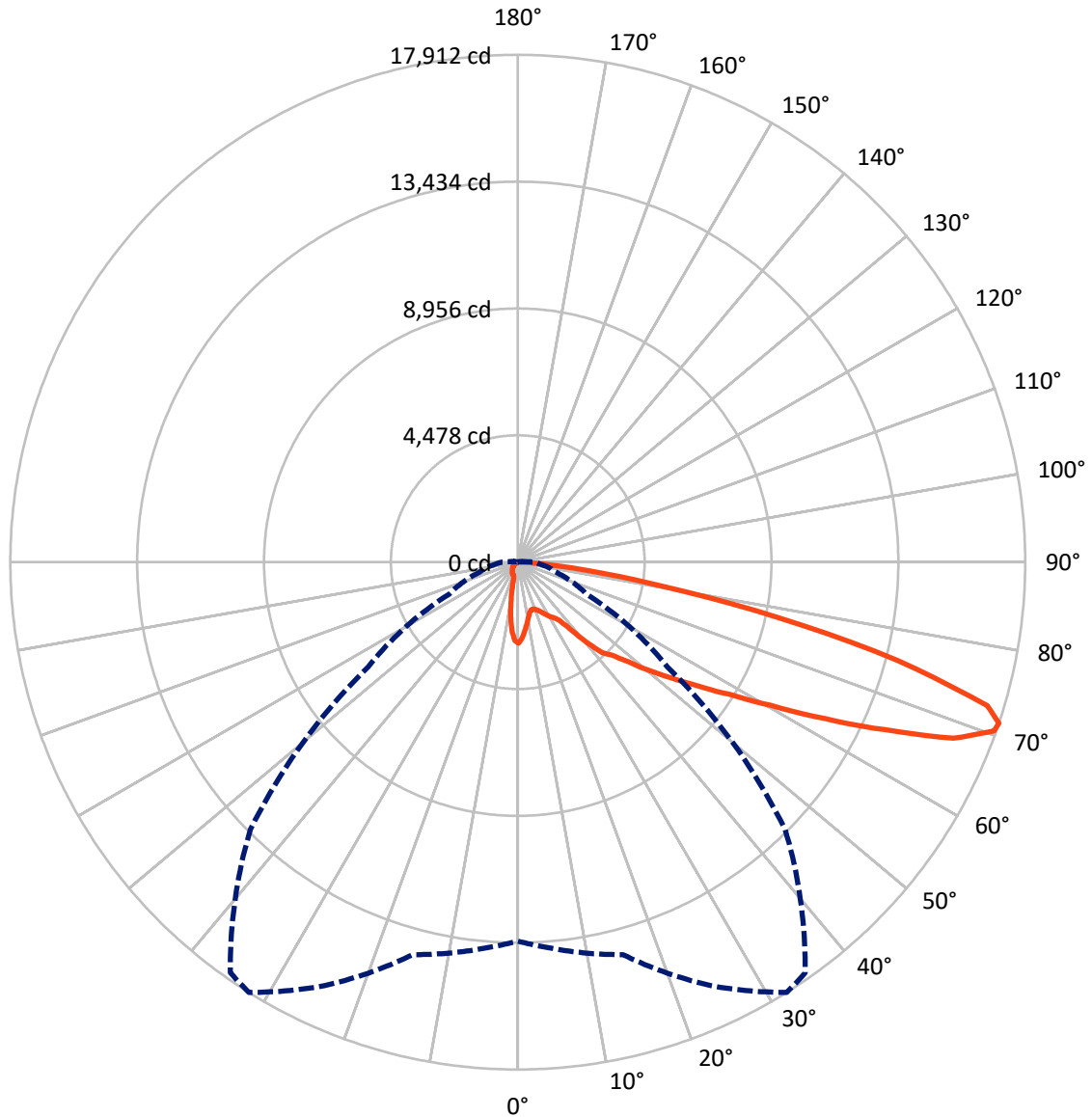
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1489.6	0.0	1489.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	16294.4	0.0	16294.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17784.0	0.0	17784.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.6	1.3
10°-20°	504.7	2.8
20°-30°	785.2	4.4
30°-40°	1308.1	7.4
40°-50°	2433.3	13.7
50°-60°	3906.7	22.0
60°-70°	5254.7	29.5
70°-80°	3117.7	17.5
80°-90°	241.0	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°	17784.0	100.0
0°-180°	17784.0	100.0



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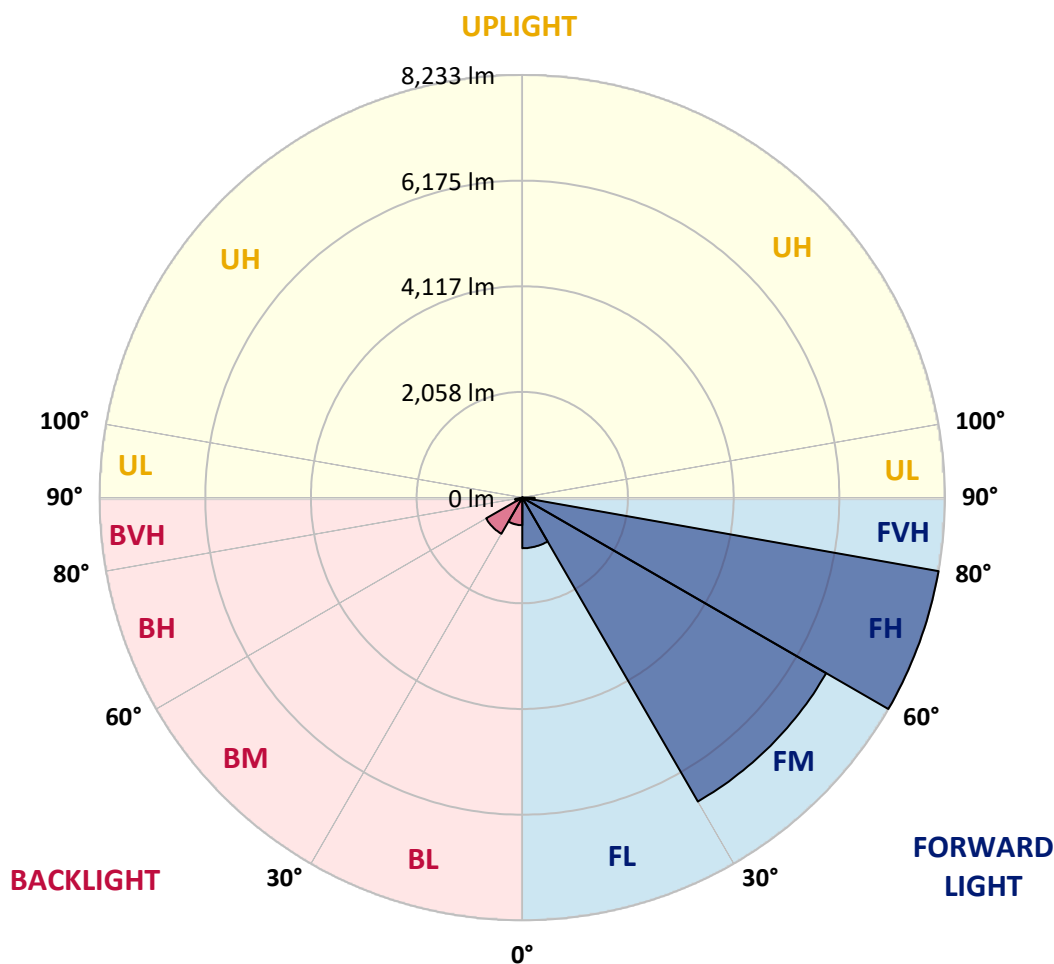
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.7	5.5			
FM	(30°-60°)	6835.5	38.4			
FH	(60°-80°)	8233.1	46.3			G4/12000
FVH	(80°-90°)	240.1	1.3			G3/500
BL	(0°-30°)	536.7	3.0	B2/1000		
BM	(30°-60°)	812.6	4.6	B1/1000		
BH	(60°-80°)	139.3	0.8	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9
2.5°	2652.4	2679.7	2675.7	2685.2	2708.4	2718.0	2743.9	2772.6	2812.2	2839.5	2857.2
5°	2375.3	2395.8	2398.5	2446.3	2469.5	2495.5	2571.9	2655.2	2748.0	2821.7	2870.9
7.5°	2079.1	2090.0	2111.9	2174.7	2233.4	2259.3	2375.3	2520.0	2666.1	2804.0	2892.7
10°	1834.7	1847.0	1886.6	1953.5	2008.1	2042.2	2203.3	2384.9	2589.6	2794.4	2924.1
12.5°	1695.5	1702.3	1717.3	1777.4	1847.0	1883.9	2057.2	2264.7	2528.2	2798.5	2977.3
15°	1685.9	1683.2	1665.5	1690.0	1752.8	1791.0	1960.3	2182.8	2473.6	2812.2	3040.1
17.5°	1736.4	1729.6	1687.3	1687.3	1739.2	1770.6	1919.4	2139.2	2446.3	2843.6	3128.9
20°	1814.3	1803.3	1733.7	1728.3	1778.8	1811.5	1943.9	2141.9	2451.8	2902.3	3247.6
22.5°	1912.5	1900.3	1795.1	1797.9	1852.5	1885.2	2014.9	2191.0	2485.9	2974.6	3374.6
25°	2040.9	2027.2	1903.0	1897.5	1954.9	1983.5	2120.0	2278.4	2533.7	3064.7	3541.1
27.5°	2211.5	2182.8	2034.0	2025.9	2087.3	2124.1	2247.0	2395.8	2618.3	3188.9	3765.0
30°	2352.1	2320.7	2178.7	2156.9	2222.4	2251.1	2378.1	2554.2	2784.9	3406.0	4074.9
32.5°	2536.4	2490.0	2323.4	2266.1	2335.7	2372.6	2567.8	2849.0	3032.0	3635.3	4443.5
35°	2951.4	2922.7	2719.3	2518.7	2514.6	2561.0	2847.7	3146.6	3285.9	3993.0	4945.9
37.5°	3545.2	3524.8	3309.1	3040.1	2962.3	2940.5	3187.6	3474.3	3691.3	4484.4	5530.1
40°	4234.6	4186.9	3988.9	3760.9	3659.9	3595.7	3588.9	3961.6	4221.0	5152.0	6139.0
42.5°	4728.8	4641.4	4401.2	4384.8	4363.0	4296.1	4102.2	4674.2	4904.9	5870.1	6790.2
45°	5247.6	5115.1	4757.5	4696.0	4687.9	4683.8	4877.6	5517.9	5650.3	6648.2	7459.1
47.5°	5650.3	5545.2	5251.7	5224.3	5258.5	5351.3	5902.8	6413.4	6386.1	7341.7	8020.1
50°	6186.8	6107.6	5781.3	5833.2	6009.3	6160.8	7059.1	7389.4	6990.8	7887.7	8428.3
52.5°	6820.2	6674.1	6371.1	6511.7	6782.0	7034.5	8286.3	8244.0	7415.4	8298.6	8732.7
55°	7369.0	7265.2	7161.5	7307.5	7711.6	8027.0	9394.8	8884.3	7723.9	8629.0	8866.5
57.5°	8297.3	8272.7	8166.2	8315.0	8805.1	9132.7	10387.3	9381.2	7921.8	8801.0	8709.5
60°	9670.6	9631.0	9433.0	9622.8	10261.7	10776.3	11301.9	9827.6	7966.9	8734.1	8257.7
62.5°	11322.4	11187.2	11018.0	11297.8	12174.2	12400.8	12163.3	10092.4	7799.0	8201.7	7168.3
65°	12865.0	12725.7	12729.8	13319.6	14273.8	14428.0	13168.0	10052.8	7307.5	6868.0	5287.1
67.5°	14045.8	14022.6	14189.1	15340.0	16587.7	16481.2	14066.3	9460.3	5850.9	4451.7	2809.4
70°	14105.9	14150.9	14628.7	16571.3	17838.1	17668.9	13989.8	7689.8	3647.6	2047.7	1107.1
71°	13379.6	13682.7	14343.4	16533.1	17911.9	17692.1	13345.5	6440.7	2675.7	1427.9	798.6
72.5°	11401.6	11561.3	12989.2	15559.7	17328.9	16859.3	11711.4	4514.5	1713.2	873.7	458.7
75°	6279.6	6672.7	8698.6	12207.0	13860.2	13447.9	7632.4	2144.6	854.6	477.8	189.8
77.5°	2989.6	2913.2	4244.2	7259.8	9397.5	9375.7	3845.6	952.9	498.3	323.5	95.6
80°	854.6	961.1	1624.5	3451.0	5217.5	5274.9	1477.1	460.0	345.4	252.5	49.1
82.5°	258.0	263.5	596.6	1526.2	2595.1	2446.3	554.2	234.8	248.5	200.7	28.7
85°	45.0	56.0	176.1	537.9	989.7	750.8	139.2	111.9	163.8	132.4	16.4
87.5°	2.7	4.1	58.7	61.4	87.4	50.5	24.6	16.4	35.5	35.5	9.6
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°	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9
2.5°	2869.5	2877.7	2872.2	2859.9	2839.5	2814.9	2782.1	2754.8	2731.6	2719.3	2734.4
5°	2887.2	2898.2	2870.9	2809.4	2716.6	2615.6	2500.9	2412.2	2342.6	2320.7	2312.5
7.5°	2914.6	2921.4	2847.7	2711.1	2514.6	2275.7	2066.8	1890.7	1754.2	1713.2	1653.2
10°	2950.0	2945.9	2806.7	2552.8	2207.4	1848.4	1524.8	1284.6	1103.0	1037.5	1032.0
12.5°	3004.6	2982.8	2754.8	2337.1	1841.6	1372.0	972.0	760.4	645.7	607.5	599.3
15°	3072.9	3021.0	2672.9	2084.6	1410.2	886.0	599.3	535.1	520.1	517.4	514.7
17.5°	3153.4	3071.5	2565.1	1774.7	991.1	574.7	501.0	499.6	501.0	498.3	496.9
20°	3262.7	3124.8	2436.8	1407.4	655.3	484.6	477.8	477.8	479.2	477.8	477.8
22.5°	3378.7	3187.6	2278.4	1074.4	494.2	460.0	458.7	461.4	464.1	462.8	462.8
25°	3522.0	3269.5	2069.5	735.8	442.3	439.6	440.9	446.4	451.9	453.2	451.9
27.5°	3729.5	3370.5	1845.7	506.5	405.4	408.2	421.8	435.5	443.7	445.0	445.0
30°	3963.0	3482.4	1553.5	410.9	375.4	375.4	391.8	417.7	435.5	438.2	439.6
32.5°	4263.3	3612.1	1230.0	369.9	346.7	344.0	359.0	390.4	423.2	432.7	432.7
35°	4634.6	3765.0	914.6	344.0	326.3	319.4	327.6	353.6	395.9	423.2	425.9
37.5°	5070.1	3909.7	668.9	320.8	307.2	297.6	303.1	323.5	357.7	398.6	409.5
40°	5472.8	4038.1	499.6	301.7	288.0	281.2	285.3	294.9	323.5	361.8	368.6
42.5°	5912.4	4137.7	397.3	281.2	268.9	266.2	266.2	270.3	289.4	311.2	312.6
45°	6350.6	4173.2	333.1	256.6	248.5	251.2	249.8	247.1	255.3	252.5	252.5
47.5°	6663.2	4130.9	275.8	233.4	233.4	237.5	230.7	221.2	217.1	200.7	202.0
50°	6877.5	3976.6	226.6	206.1	217.1	222.5	208.9	193.8	178.8	161.1	157.0
52.5°	6966.3	3702.2	185.7	170.6	192.5	199.3	182.9	165.2	142.0	127.0	122.9
55°	6908.9	3363.7	154.3	139.2	162.5	170.6	154.3	133.8	107.8	91.5	88.7
57.5°	6656.4	2959.6	131.1	110.6	129.7	135.1	124.2	102.4	76.4	60.1	60.1
60°	6219.5	2541.9	106.5	87.4	96.9	105.1	94.2	73.7	51.9	36.9	34.1
62.5°	5333.6	2064.1	86.0	68.3	68.3	75.1	65.5	53.2	32.8	19.1	17.7
65°	3851.0	1415.6	68.3	50.5	49.1	49.1	41.0	35.5	19.1	8.2	5.5
67.5°	2092.7	798.6	54.6	38.2	34.1	32.8	25.9	20.5	8.2	1.4	0.0
70°	823.2	307.2	42.3	25.9	21.8	20.5	13.7	9.6	5.5	0.0	0.0
71°	558.3	211.6	36.9	21.8	17.7	15.0	10.9	8.2	4.1	0.0	0.0
72.5°	319.4	131.1	28.7	16.4	13.7	10.9	8.2	5.5	4.1	0.0	0.0
75°	139.2	66.9	17.7	12.3	9.6	6.8	5.5	4.1	1.4	0.0	0.0
77.5°	71.0	36.9	12.3	9.6	5.5	4.1	2.7	1.4	0.0	0.0	0.0
80°	39.6	19.1	8.2	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
82.5°	21.8	10.9	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	2.7	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)