

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: P455582

Luminaire Tested: **GALN-SA6D-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455582  
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-SA6D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 30222 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

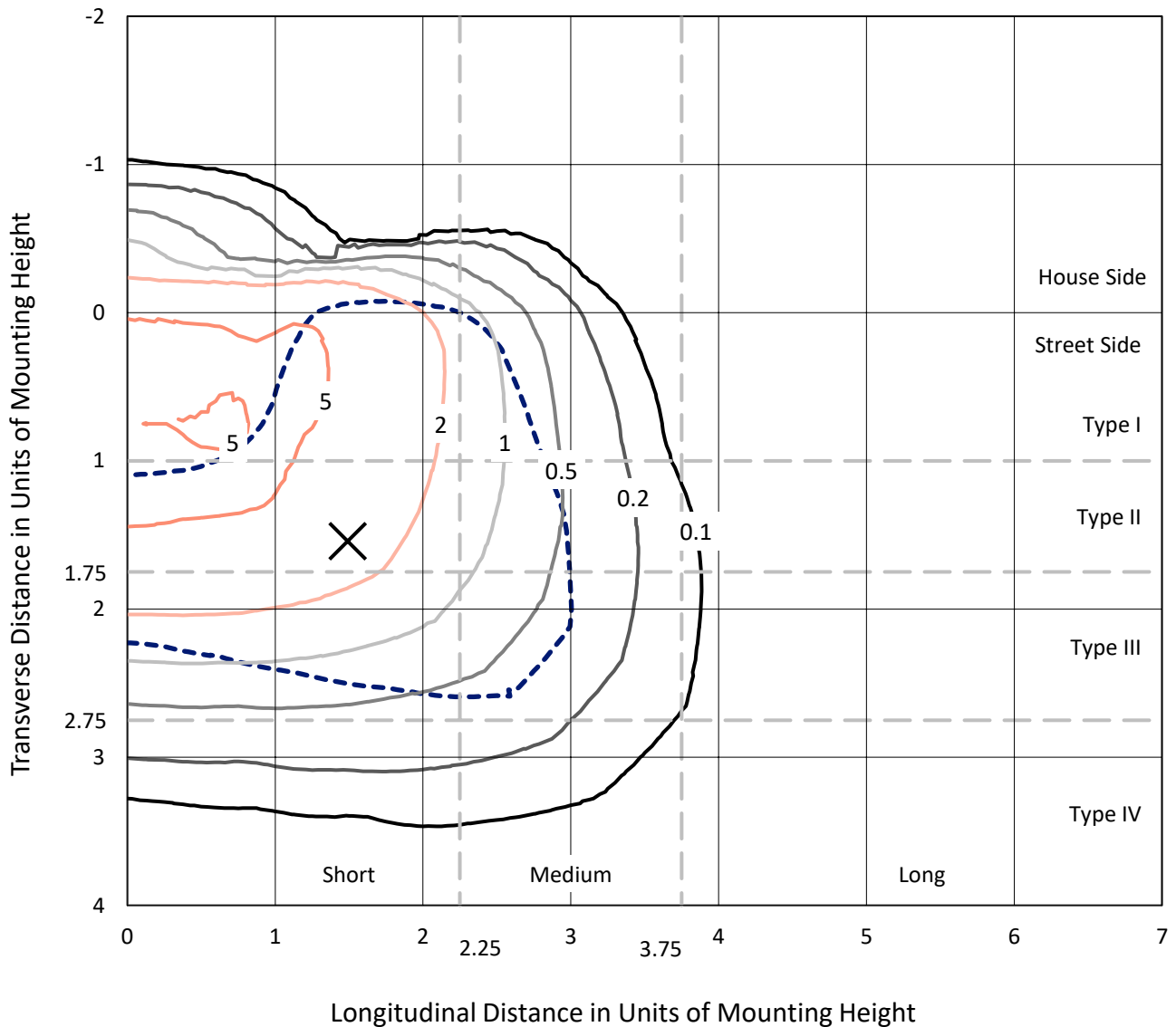
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

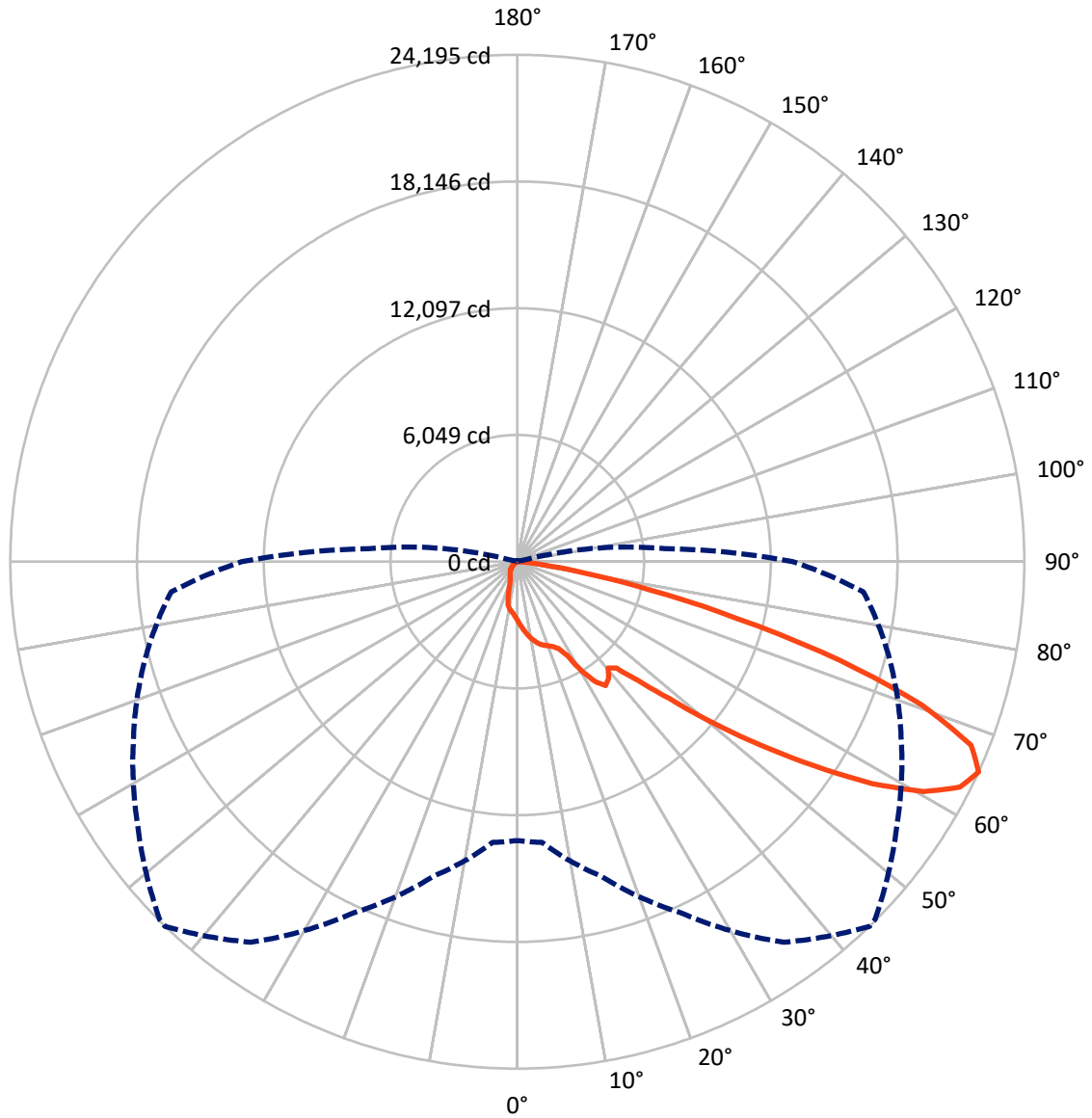
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	2784.5	0.0	2784.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	27437.5	0.0	27437.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	30222.0	0.0	30222.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.8	0.9
10°-20°	842.0	2.8
20°-30°	1427.7	4.7
30°-40°	2373.8	7.9
40°-50°	4144.7	13.7
50°-60°	8097.3	26.8
60°-70°	9394.7	31.1
70°-80°	3421.1	11.3
80°-90°	241.0	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°	30222.0	100.0
0°-180°	30222.0	100.0



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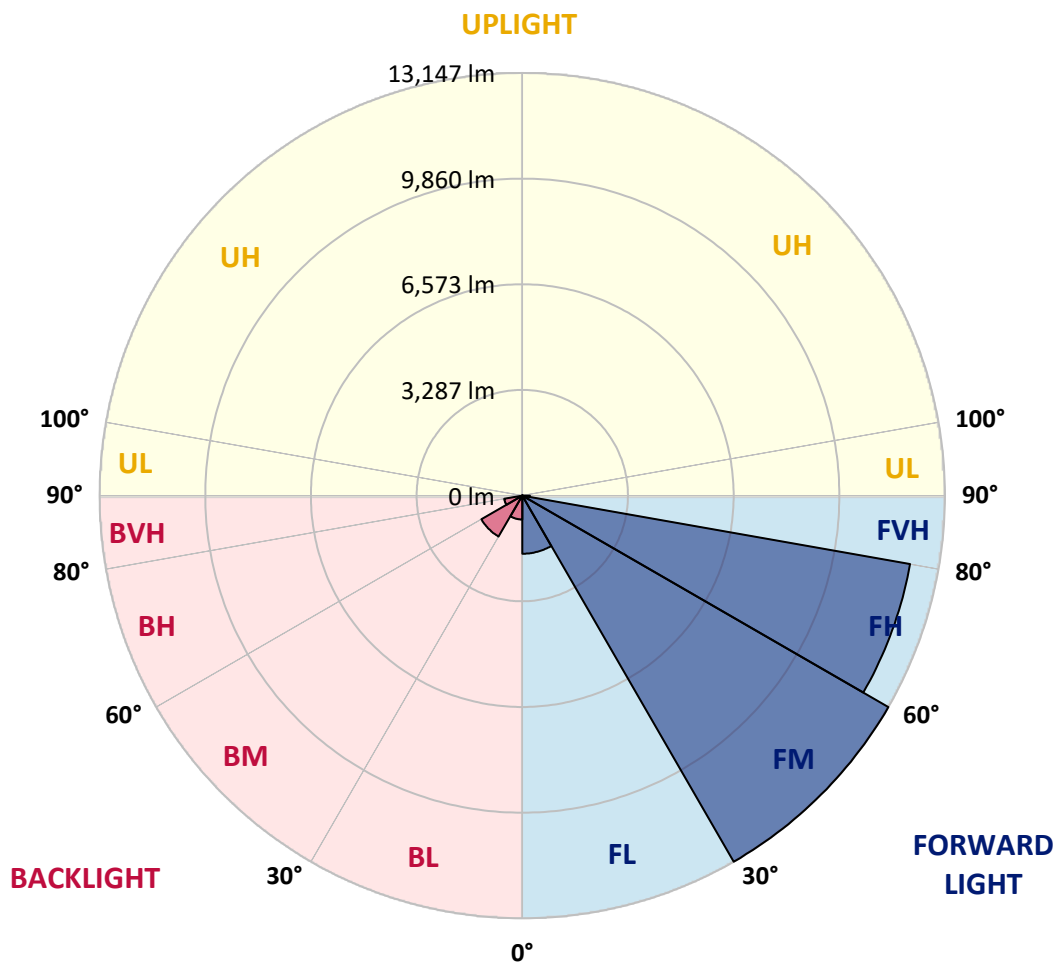
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1807.6	6.0			
FM	(30°-60°)	13146.6	43.5			
FH	(60°-80°)	12245.6	40.5			G5
FVH	(80°-90°)	237.8	0.8			G3/500
BL	(0°-30°)	741.9	2.5	B2/1000		
BM	(30°-60°)	1469.1	4.9	B2/2500		
BH	(60°-80°)	570.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.3	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	3166.1	3152.2	3145.3	3108.4	3080.6	3046.0	3046.0	3002.1	2951.3	2895.9	2845.1
5°	3519.4	3496.3	3466.3	3434.0	3369.3	3276.9	3276.9	3184.6	3078.3	2983.7	2879.7
7.5°	3858.9	3838.1	3787.3	3725.0	3618.7	3521.7	3514.8	3380.9	3253.8	3110.7	2962.9
10°	4156.8	4140.6	4096.8	3976.7	3865.8	3738.8	3736.5	3586.4	3438.6	3263.1	3080.6
12.5°	4364.6	4366.9	4309.2	4193.7	4050.6	3930.5	3921.2	3773.4	3618.7	3429.4	3205.4
15°	4512.4	4512.4	4452.4	4323.1	4193.7	4087.5	4078.3	3949.0	3789.6	3584.1	3341.6
17.5°	4554.0	4567.9	4503.2	4387.7	4283.8	4191.4	4189.1	4080.6	3953.6	3755.0	3480.2
20°	4537.8	4551.7	4500.9	4410.8	4339.2	4286.1	4279.2	4235.3	4117.5	3930.5	3628.0
22.5°	4503.2	4517.1	4480.1	4427.0	4392.4	4408.5	4397.0	4433.9	4371.6	4145.3	3803.5
25°	4510.1	4524.0	4496.3	4466.2	4496.3	4595.6	4625.6	4784.9	4729.5	4417.8	3992.8
27.5°	4727.2	4754.9	4715.7	4729.5	4835.7	5066.7	5124.4	5399.2	5154.4	4764.2	4288.4
30°	5209.9	5191.4	5117.5	5184.5	5553.9	6043.5	6027.4	5983.5	5600.1	5163.7	4639.4
32.5°	5648.6	5632.5	5627.8	5916.5	6586.2	6824.1	6812.5	6387.6	5999.6	5620.9	4985.8
35°	5826.4	5764.1	5750.2	6450.0	7570.0	7255.9	7184.3	6553.9	6484.6	6119.7	5339.2
37.5°	6362.2	6318.3	6103.6	6537.7	7177.4	7073.5	7018.1	6840.2	7001.9	6560.8	5738.7
40°	7466.1	7343.7	7149.7	6724.8	6620.9	6664.7	6720.2	7207.4	7613.9	7163.5	6272.1
42.5°	8837.8	8810.1	8449.8	7657.7	6879.5	6939.5	7011.1	7974.1	8493.7	8071.1	7142.8
45°	10484.4	10523.6	10004.0	9068.7	8048.0	8098.8	8202.7	9105.7	9685.3	9482.1	8512.2
47.5°	11980.8	11950.8	11775.3	10803.1	9860.8	9747.7	9916.3	10558.3	11334.2	11366.5	10211.9
50°	13486.5	13645.8	13384.9	13003.9	12304.1	12066.3	12003.9	12318.0	13500.4	13345.6	12253.3
52.5°	15650.3	15733.5	15243.9	15146.9	15306.3	14534.9	14472.6	14548.8	15606.5	15075.3	13782.1
55°	17010.5	16962.0	16779.6	17537.1	18167.5	17204.5	17126.0	16818.9	17354.6	16297.0	15253.1
57.5°	17440.1	17509.4	17934.3	19303.7	20795.5	19978.0	19834.9	18961.9	18615.5	17435.5	16606.4
60°	17248.4	17375.4	18292.2	20329.1	22398.2	22275.8	22153.4	20687.0	19520.8	18386.9	17555.5
62.5°	15883.6	16061.4	17527.8	20146.6	22940.9	23705.3	23552.9	21763.1	20123.5	18848.8	17721.8
65°	13311.0	13442.6	15548.7	18490.8	22169.6	24194.9	24139.5	22100.3	20218.2	18426.2	16583.3
67.5°	9489.0	9937.1	11888.4	15583.4	19888.0	23358.9	23453.6	21696.2	19329.1	16599.5	13733.6
70°	5965.0	6269.8	7669.3	11156.4	15943.6	20493.0	20804.8	19846.4	16775.0	12939.2	9193.5
72.5°	2845.1	3071.4	4069.0	7061.9	11253.4	16123.8	16370.9	16292.3	12971.5	8151.9	4743.4
75°	1267.8	1353.3	1942.1	3604.9	7265.2	10837.7	11477.4	11583.6	8105.8	3988.2	1845.2
77.5°	646.6	648.9	909.9	1745.9	3628.0	6466.1	6593.1	6964.9	4394.7	1757.4	642.0
80°	344.1	367.2	482.7	824.4	1882.1	3184.6	3168.4	3482.5	1949.1	861.4	214.8
82.5°	154.7	170.9	272.5	431.8	919.1	1207.8	1302.5	1424.9	836.0	549.6	94.7
85°	46.2	55.4	133.9	217.1	332.5	348.7	390.3	503.4	473.4	390.3	48.5
87.5°	6.9	6.9	55.4	60.0	48.5	62.4	64.7	71.6	152.4	143.2	25.4
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°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2817.4	2801.2	2743.5	2695.0	2653.4	2628.0	2598.0	2579.5	2570.3	2563.4	2565.7
5°	2828.9	2789.7	2690.4	2611.9	2551.8	2487.2	2443.3	2417.9	2406.3	2387.8	2387.8
7.5°	2893.6	2831.2	2692.7	2572.6	2468.7	2380.9	2297.8	2267.8	2247.0	2242.4	2237.7
10°	2986.0	2907.4	2718.1	2551.8	2404.0	2283.9	2166.2	2062.2	1981.4	1932.9	1926.0
12.5°	3101.4	2988.3	2757.3	2538.0	2348.6	2136.1	1824.4	1614.2	1473.4	1429.5	1436.4
15°	3207.7	3085.3	2796.6	2526.4	2247.0	1771.3	1417.9	1177.8	1106.2	1099.2	1101.6
17.5°	3334.7	3189.2	2842.8	2510.2	1967.6	1353.3	1053.1	988.4	1002.3	1025.3	1023.0
20°	3466.3	3300.0	2898.2	2413.3	1570.3	1018.4	930.7	937.6	958.4	979.2	983.8
22.5°	3607.2	3427.0	2962.9	2180.0	1198.5	886.8	882.2	891.4	912.2	935.3	939.9
25°	3801.2	3586.4	3011.4	1875.2	907.6	819.8	829.1	845.2	863.7	889.1	893.7
27.5°	4050.6	3801.2	3036.8	1478.0	785.2	759.8	762.1	785.2	808.3	831.4	831.4
30°	4373.9	4057.5	2986.0	1117.7	725.1	702.0	692.8	706.7	736.7	759.8	762.1
32.5°	4662.5	4300.0	2852.0	854.5	681.3	648.9	625.8	628.1	639.7	653.5	655.9
35°	4951.2	4535.5	2623.4	718.2	635.1	598.1	563.5	545.0	535.8	528.8	535.8
37.5°	5320.7	4828.8	2318.6	653.5	595.8	549.6	501.1	461.9	429.5	408.8	413.4
40°	5796.4	5235.3	1958.3	612.0	558.9	503.4	438.8	388.0	332.5	314.1	304.8
42.5°	6581.6	5851.8	1579.6	577.3	521.9	454.9	374.1	304.8	254.0	235.6	240.2
45°	7821.7	6630.1	1217.0	540.4	485.0	401.8	314.1	240.2	198.6	189.4	194.0
47.5°	9466.0	7637.0	937.6	498.8	438.8	344.1	247.1	189.4	164.0	161.7	159.3
50°	11013.2	8574.6	782.9	452.6	383.3	286.4	203.2	159.3	143.2	140.9	140.9
52.5°	12412.7	9246.6	637.4	399.5	323.3	235.6	170.9	140.9	127.0	120.1	120.1
55°	13657.4	9685.3	517.3	334.9	254.0	187.1	147.8	127.0	110.8	101.6	99.3
57.5°	14597.3	9738.5	388.0	267.9	189.4	145.5	127.0	110.8	92.4	80.8	76.2
60°	14999.1	9278.9	286.4	203.2	140.9	115.5	101.6	90.1	69.3	57.7	55.4
62.5°	14595.0	8385.2	212.5	154.7	108.5	85.4	71.6	67.0	48.5	34.6	32.3
65°	13147.0	7094.3	168.6	117.8	80.8	62.4	46.2	43.9	30.0	16.2	13.9
67.5°	10532.9	5556.3	133.9	87.8	57.7	41.6	30.0	27.7	16.2	4.6	4.6
70°	6849.5	3551.8	108.5	64.7	36.9	27.7	18.5	13.9	9.2	2.3	0.0
72.5°	3387.8	1660.4	87.8	50.8	25.4	13.9	6.9	4.6	6.9	0.0	0.0
75°	1314.0	591.2	64.7	34.6	13.9	6.9	4.6	0.0	2.3	0.0	0.0
77.5°	436.5	196.3	39.3	18.5	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	161.7	76.2	20.8	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.7	30.0	13.9	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	18.5	9.2	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	13.9	9.2	6.9	4.6	2.3	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)