

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: P452823

Luminaire Tested: **GALN-SA3D-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18081 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

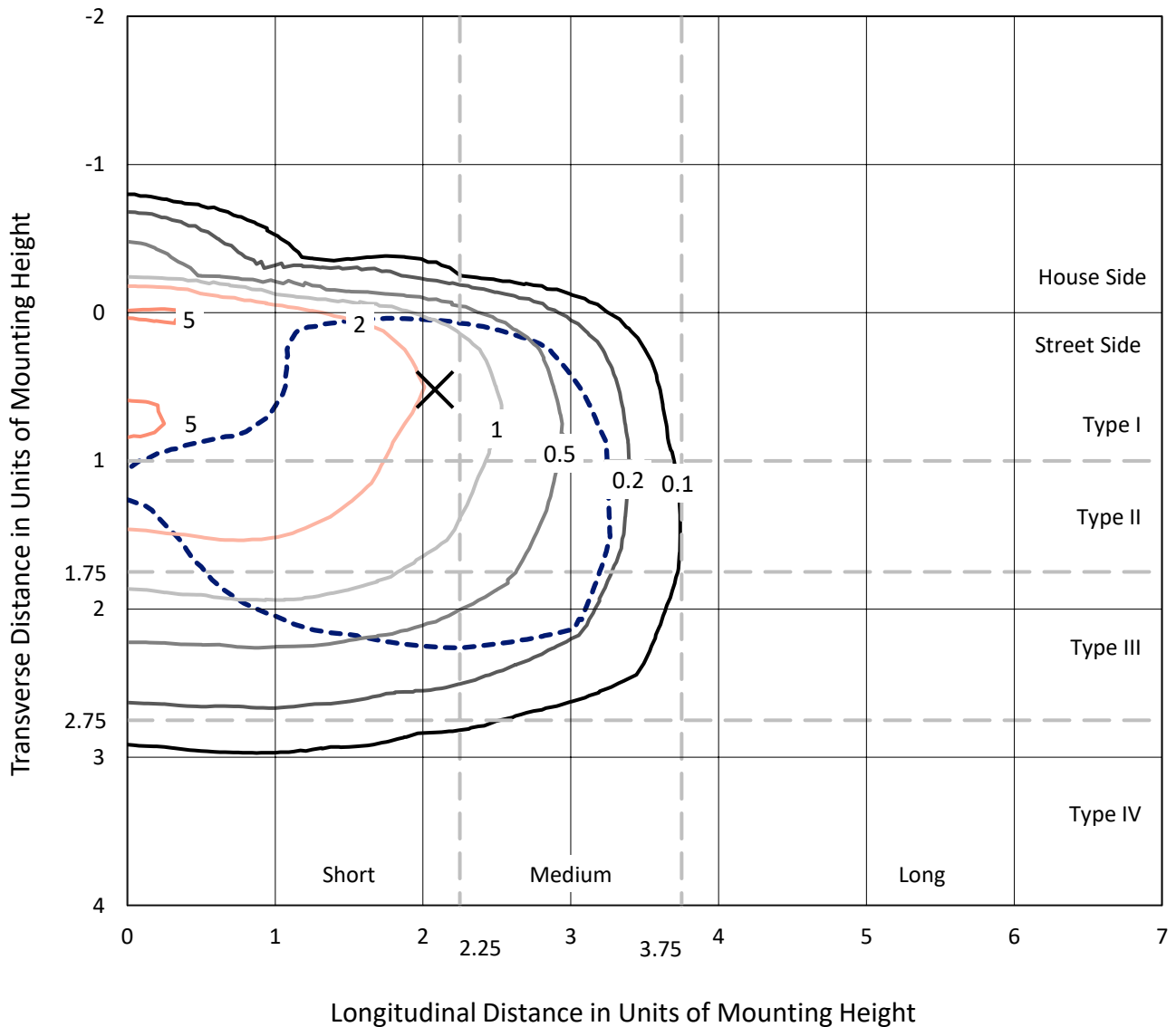
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

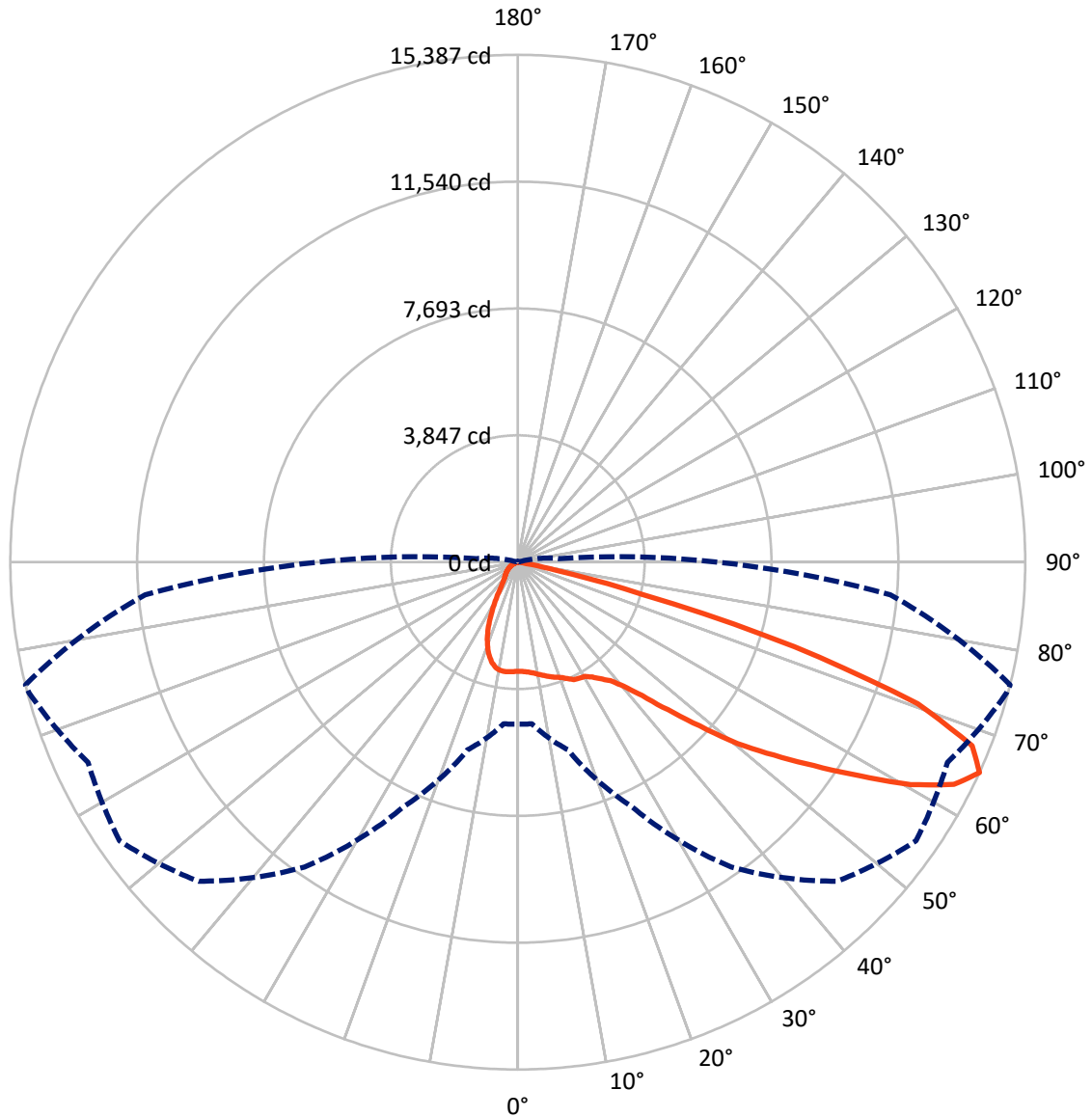
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1305.8	0.0	1305.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16775.2	0.0	16775.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18081.0	0.0	18081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.5	1.5
10°-20°	606.7	3.4
20°-30°	977.6	5.4
30°-40°	1699.8	9.4
40°-50°	2808.8	15.5
50°-60°	4339.0	24.0
60°-70°	5298.6	29.3
70°-80°	2011.0	11.1
80°-90°	67.1	0.4
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°	18081.0	100.0
0°-180°	18081.0	100.0

**Coefficient of Utilization**



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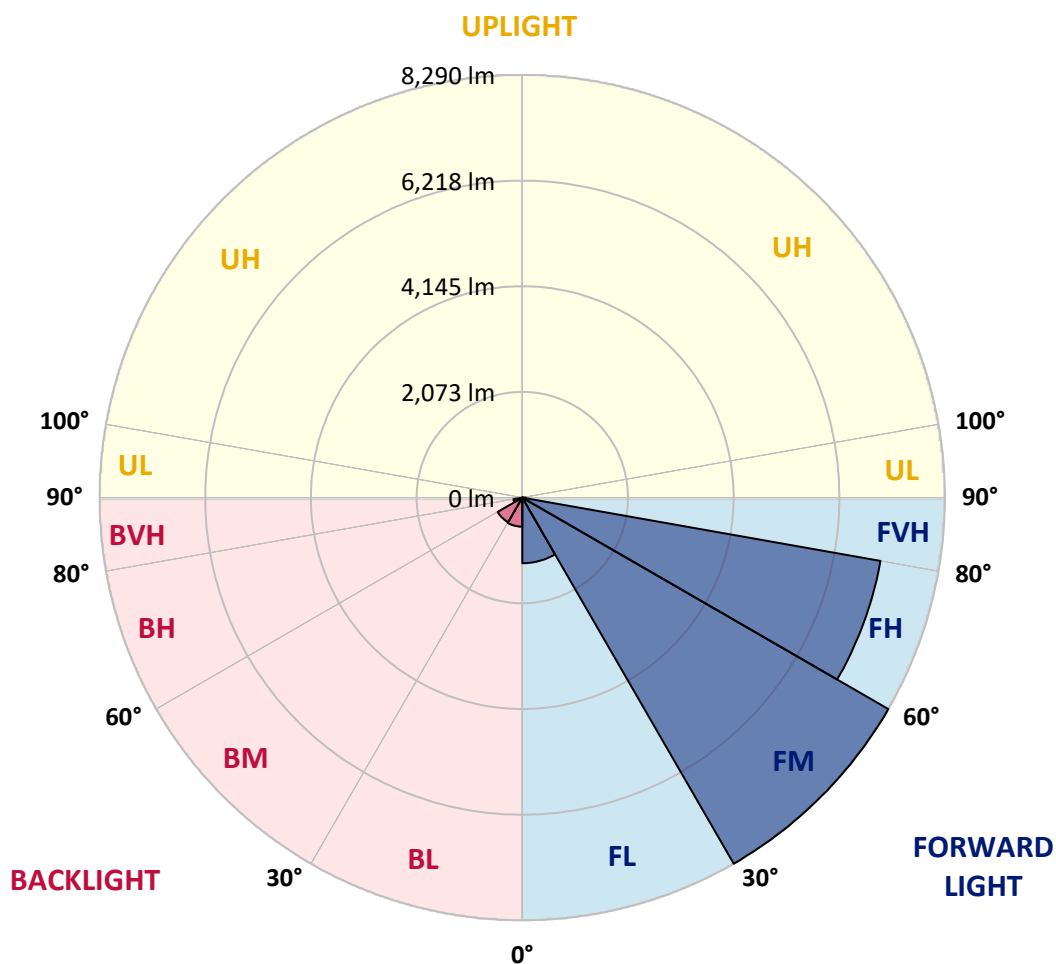
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.2	7.1			
FM	(30°-60°)	8290.4	45.9			
FH	(60°-80°)	7132.3	39.4			G3/7500
FVH	(80°-90°)	66.2	0.4			G1/100
BL	(0°-30°)	570.5	3.2	B2/1000		
BM	(30°-60°)	557.2	3.1	B1/1000		
BH	(60°-80°)	177.2	1.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6
2.5°	3160.8	3162.1	3169.7	3188.9	3218.2	3242.5	3262.9	3296.1	3319.1	3321.6	3329.3
5°	2942.5	2927.2	2942.5	2992.3	3037.0	3104.6	3187.6	3270.6	3344.6	3349.7	3385.5
7.5°	2697.4	2710.2	2734.4	2785.5	2869.7	2973.1	3093.1	3241.2	3381.6	3394.4	3464.6
10°	2448.5	2476.5	2516.1	2594.0	2711.4	2845.5	3008.9	3220.8	3440.4	3458.2	3579.5
12.5°	2218.7	2231.4	2280.0	2384.6	2530.2	2719.1	2945.0	3209.3	3505.5	3527.2	3702.1
15°	2042.5	2059.1	2101.2	2195.7	2357.8	2600.4	2892.7	3205.5	3569.3	3599.9	3824.6
17.5°	2009.3	2019.5	2037.4	2101.2	2242.9	2505.9	2845.5	3204.2	3630.6	3667.6	3938.2
20°	2145.9	2137.0	2119.1	2112.7	2190.6	2433.1	2811.0	3214.4	3689.3	3731.4	4058.2
22.5°	2488.0	2499.5	2394.8	2271.0	2245.5	2421.7	2805.9	3262.9	3782.5	3832.3	4192.3
25°	3214.4	3126.3	2962.9	2666.8	2443.4	2491.9	2863.3	3377.8	3891.0	3945.9	4313.5
27.5°	4017.4	3990.6	3736.5	3248.9	2832.7	2639.9	2965.5	3465.9	3926.7	3982.9	4382.5
30°	4806.3	4838.2	4547.1	4008.4	3398.2	2914.4	3061.2	3499.1	3958.6	4017.4	4470.5
32.5°	5537.8	5576.1	5320.7	4787.1	4064.6	3389.3	3225.9	3628.0	4092.7	4152.7	4617.4
35°	6113.5	6118.6	5925.8	5500.7	4792.2	3966.3	3582.1	3854.0	4274.0	4344.2	4773.1
37.5°	6642.0	6634.3	6408.4	6042.0	5398.6	4539.5	4030.1	4114.4	4480.8	4553.5	4997.8
40°	7033.9	7039.0	6966.2	6621.6	5964.1	5069.3	4385.0	4358.2	4828.0	4941.6	5324.6
42.5°	7295.6	7342.8	7378.6	7203.7	6675.2	5721.6	4930.1	4880.3	5430.5	5525.0	5786.7
45°	7507.5	7591.8	7770.5	7761.5	7358.1	6522.0	5678.2	5576.1	6284.6	6385.4	6375.2
47.5°	7662.0	7747.5	8043.7	8222.4	8000.3	7298.1	6619.0	6530.9	7304.5	7414.3	7025.0
50°	7741.1	7843.2	8221.1	8567.1	8502.0	8046.2	7691.3	7696.4	8536.4	8642.4	7778.1
52.5°	7556.0	7688.8	8315.6	8938.5	9064.9	8762.4	8696.0	8864.5	9633.0	9723.6	8458.6
55°	6965.0	7132.2	8186.6	9255.1	9717.2	9607.5	9837.2	10093.8	10831.7	10890.4	9156.8
57.5°	6590.9	6768.4	7806.2	9524.5	10501.1	10669.6	11033.4	11221.0	12068.7	12218.0	9958.5
60°	6275.6	6414.8	7493.5	9581.9	11297.6	11969.1	12322.7	12516.8	13595.5	13692.5	10840.6
62.5°	5750.9	5910.5	6965.0	9181.1	11698.5	13009.5	13742.3	13655.5	14776.3	14844.0	11381.9
65°	4907.1	4921.2	5892.6	8173.9	11284.9	13684.8	14739.3	14375.5	15340.5	15386.5	11339.8
67.5°	3662.5	3797.8	4533.1	6425.0	9532.1	13107.8	15062.2	14394.6	14984.4	14856.7	10439.8
70°	2359.1	2462.5	3072.7	4455.2	6873.1	10938.9	13991.2	13407.8	13151.2	12867.8	8545.4
72.5°	1088.9	1221.7	1825.5	2545.5	4076.1	7792.2	11357.6	10893.0	9465.8	8766.2	5431.8
75°	474.9	508.1	901.3	1343.0	1911.0	4120.8	7488.4	6762.0	4275.2	3905.0	2174.0
77.5°	289.8	311.5	472.3	720.0	750.6	1570.2	4034.0	2950.2	1321.2	1165.5	589.8
80°	196.6	220.8	343.4	376.6	256.6	437.9	1514.0	787.6	266.8	255.3	126.4
82.5°	95.7	121.3	254.0	210.6	111.1	140.4	440.4	168.5	77.9	72.8	44.7
85°	14.0	24.3	143.0	137.9	49.8	33.2	77.9	42.1	26.8	25.5	20.4
87.5°	0.0	0.0	48.5	21.7	5.1	5.1	8.9	8.9	10.2	8.9	10.2
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°	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6
2.5°	3333.1	3339.5	3315.3	3280.8	3243.8	3206.7	3154.4	3107.2	3079.1	3095.7	3054.8
5°	3393.1	3388.0	3324.2	3219.5	3080.4	2913.1	2747.2	2605.5	2559.5	2490.6	2482.9
7.5°	3476.1	3462.1	3326.7	3086.7	2772.7	2458.7	2152.3	1949.3	1833.2	1734.9	1737.4
10°	3592.3	3551.4	3297.4	2853.1	2336.1	1862.5	1471.9	1203.8	1087.6	1050.6	1021.3
12.5°	3712.3	3633.1	3215.7	2537.8	1819.1	1272.7	894.9	731.5	660.0	637.0	634.5
15°	3819.5	3694.4	3072.7	2158.7	1322.5	813.2	610.2	556.6	547.6	548.9	547.6
17.5°	3925.5	3742.9	2874.8	1756.6	898.7	583.4	524.7	511.9	515.7	520.8	519.6
20°	4013.5	3753.1	2622.1	1340.4	635.7	511.9	492.8	490.2	494.0	497.9	497.9
22.5°	4109.3	3760.8	2322.1	928.1	519.6	476.2	465.9	465.9	471.1	476.2	477.4
25°	4180.8	3718.6	1963.4	666.4	458.3	441.7	436.6	437.9	443.0	445.5	444.2
27.5°	4192.3	3599.9	1582.9	510.6	416.2	399.6	394.5	399.6	393.2	397.0	394.5
30°	4202.5	3449.3	1197.4	430.2	377.9	352.3	344.7	337.0	331.9	325.5	324.2
32.5°	4234.4	3271.8	874.5	386.8	342.1	314.0	296.2	274.5	257.9	252.8	251.5
35°	4248.4	3058.7	642.1	352.3	310.2	279.6	247.7	217.0	192.8	183.8	190.2
37.5°	4302.0	2851.9	497.9	326.8	282.1	243.8	203.0	164.7	141.7	136.6	139.1
40°	4411.8	2627.2	417.4	305.1	257.9	210.6	160.8	123.8	108.5	103.4	102.1
42.5°	4588.0	2403.8	371.5	284.7	233.6	177.4	126.4	97.0	84.3	80.4	80.4
45°	4802.5	2189.3	339.6	263.0	208.1	143.0	99.6	77.9	70.2	67.7	67.7
47.5°	5084.6	2001.7	312.8	241.3	180.0	113.6	80.4	67.7	62.6	63.8	65.1
50°	5370.5	1862.5	283.4	217.0	148.1	93.2	68.9	60.0	58.7	60.0	60.0
52.5°	5586.3	1780.8	243.8	183.8	116.2	77.9	61.3	56.2	54.9	52.3	52.3
55°	5877.3	1762.9	194.0	149.4	91.9	65.1	54.9	51.1	47.2	44.7	43.4
57.5°	6251.4	1783.4	149.4	116.2	71.5	53.6	48.5	42.1	37.0	31.9	31.9
60°	6483.7	1737.4	116.2	89.4	52.3	43.4	37.0	30.6	24.3	20.4	19.1
62.5°	6409.7	1543.4	91.9	66.4	37.0	31.9	24.3	20.4	14.0	10.2	8.9
65°	6028.0	1245.9	74.0	46.0	26.8	19.1	12.8	12.8	6.4	1.3	0.0
67.5°	5276.1	923.0	58.7	30.6	15.3	8.9	6.4	3.8	0.0	0.0	0.0
70°	4294.4	666.4	46.0	19.1	8.9	6.4	2.6	1.3	0.0	0.0	0.0
72.5°	2726.8	381.7	35.7	11.5	6.4	2.6	0.0	0.0	0.0	0.0	0.0
75°	1054.4	149.4	24.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	298.7	70.2	14.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.9	30.6	7.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.0	12.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	1.3	0.0	0.0	0.0	0.0	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)