

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: P452817

Luminaire Tested: **GALN-SA3D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17264 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

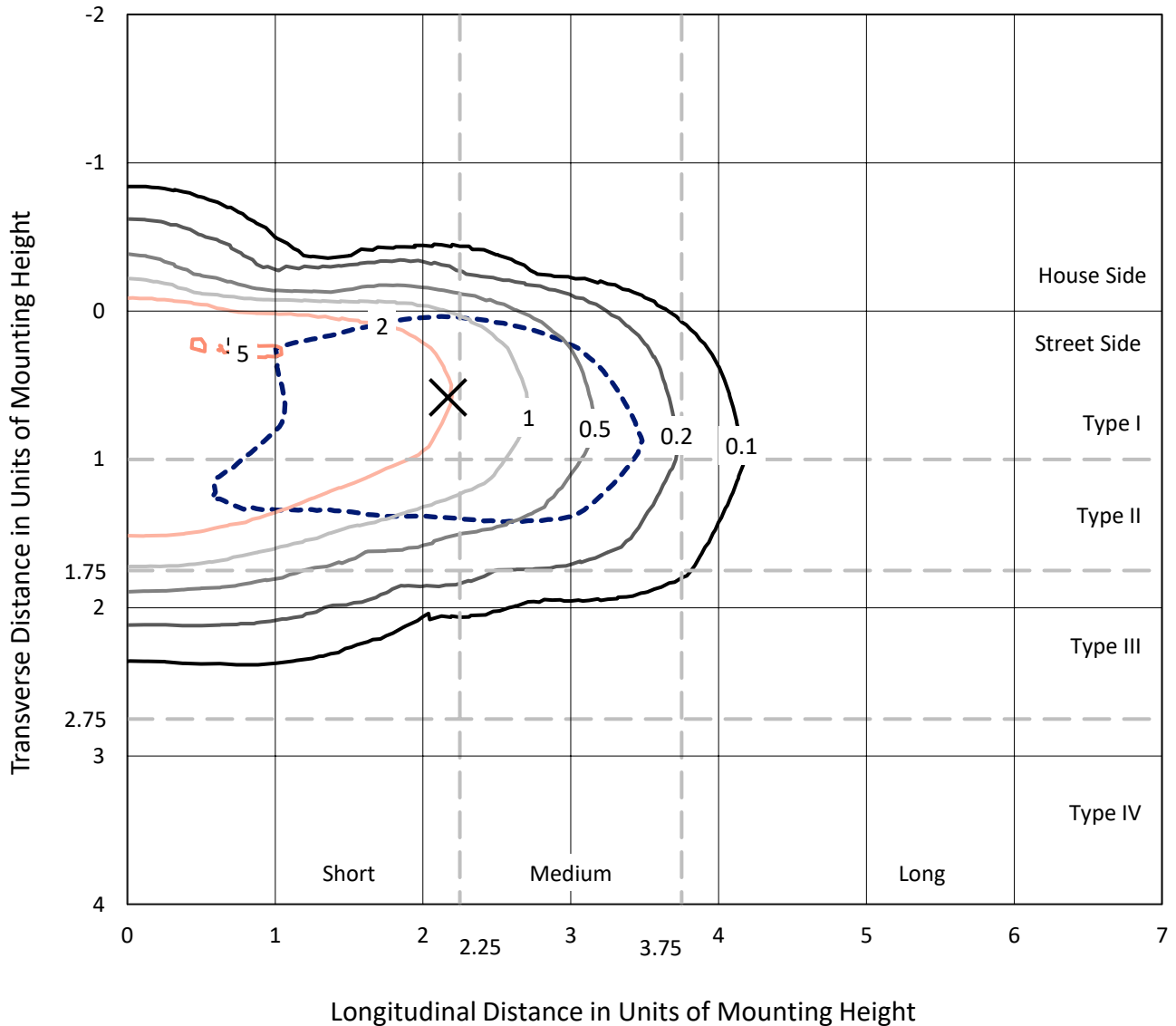
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

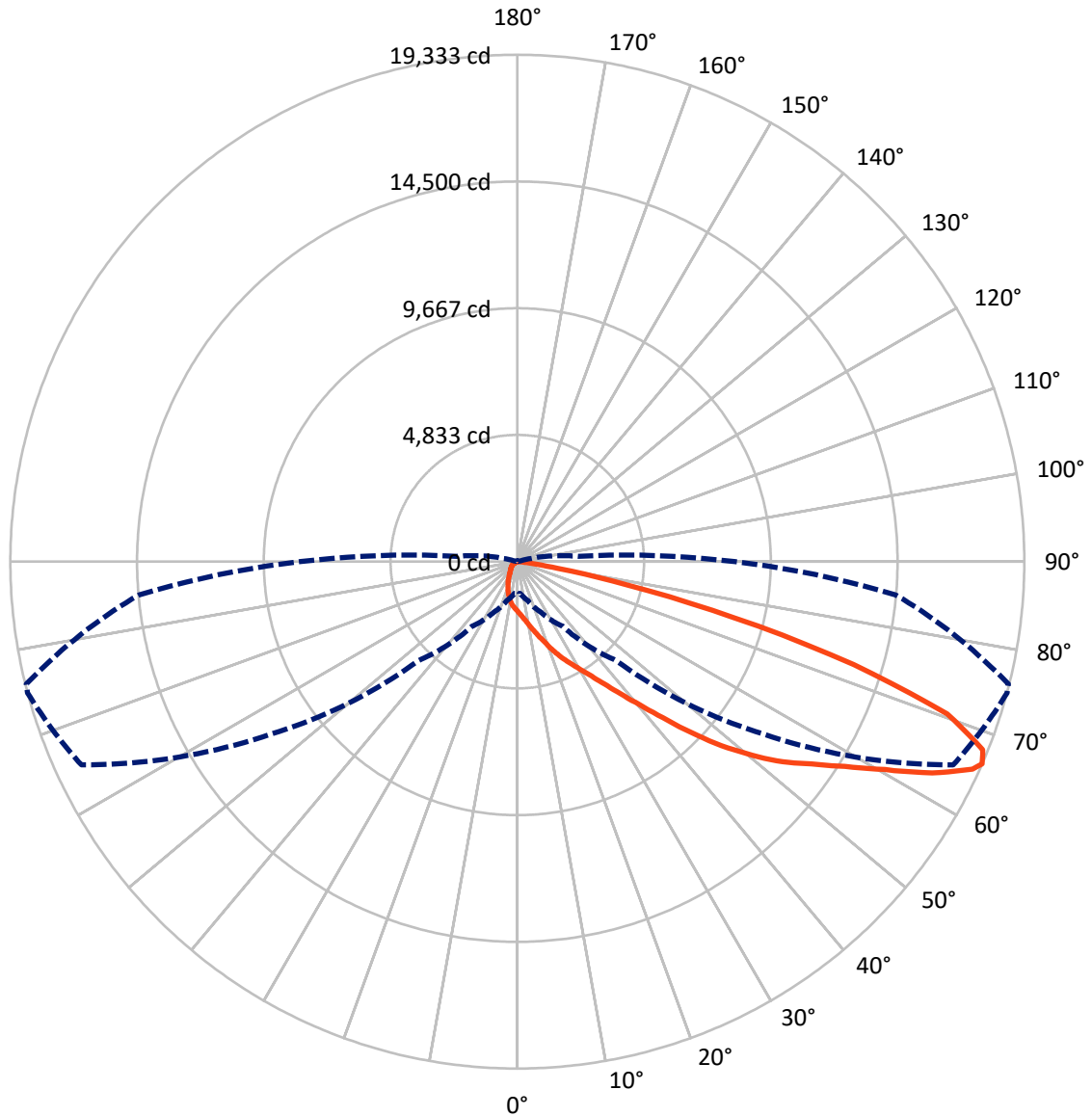
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1065.8	0.0	1065.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	16198.2	0.0	16198.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	17264.0	0.0	17264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	1.1
10°-20°	535.9	3.1
20°-30°	925.4	5.4
30°-40°	1669.3	9.7
40°-50°	3015.6	17.5
50°-60°	4701.4	27.2
60°-70°	4466.1	25.9
70°-80°	1673.8	9.7
80°-90°	94.4	0.5
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°	17264.0	100.0
0°-180°	17264.0	100.0

**Coefficient of Utilization**



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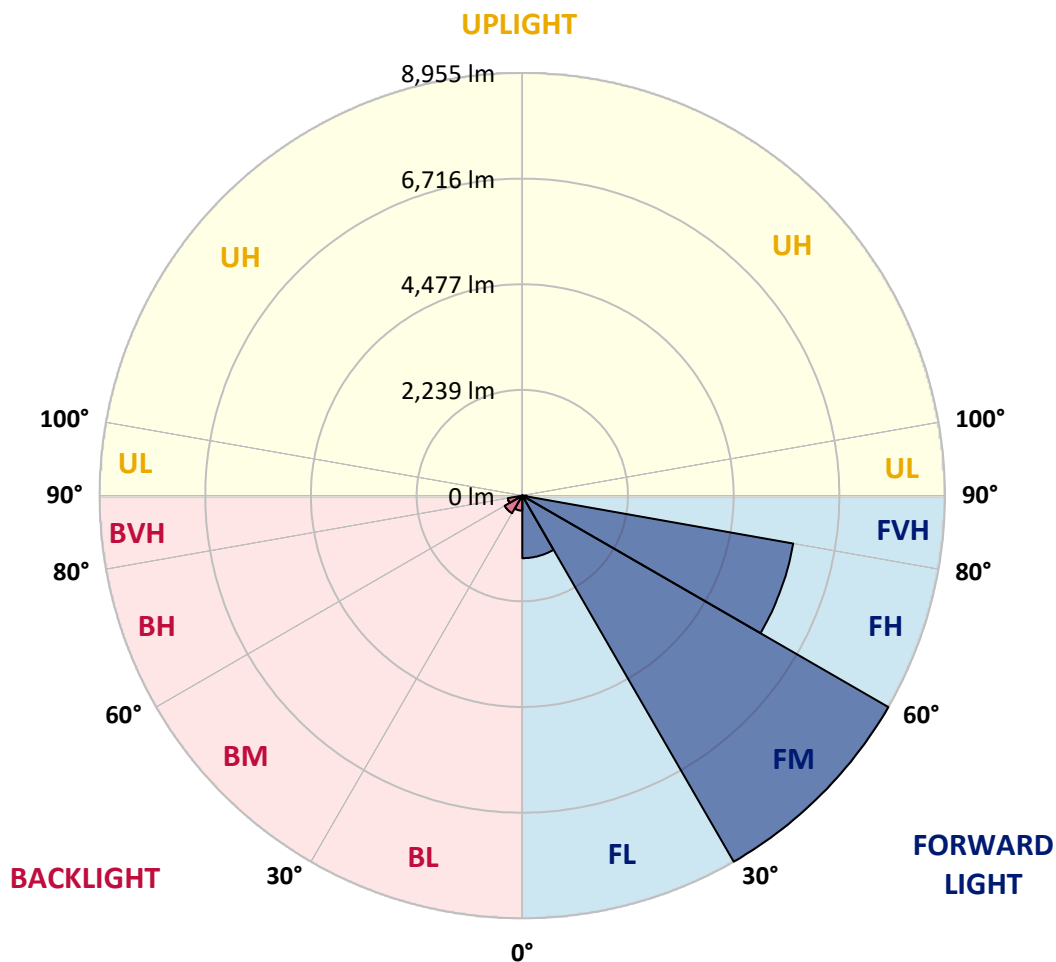
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.2	7.7			
FM	(30°-60°)	8954.8	51.9			
FH	(60°-80°)	5828.6	33.8			G3/7500
FVH	(80°-90°)	89.6	0.5			G1/100
BL	(0°-30°)	318.3	1.8	B1/500		
BM	(30°-60°)	431.4	2.5	B1/1000		
BH	(60°-80°)	311.2	1.8	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0
2.5°	2255.6	2227.5	2236.5	2223.7	2194.4	2151.0	2112.7	2057.8	2002.9	1993.9	1932.7
5°	2553.1	2545.4	2535.2	2498.2	2477.7	2411.4	2332.2	2237.8	2124.1	2103.7	1992.7
7.5°	2756.0	2752.2	2757.3	2738.2	2720.3	2660.3	2576.0	2447.1	2270.9	2259.5	2074.4
10°	2822.4	2832.6	2851.8	2882.4	2910.5	2891.3	2827.5	2666.7	2461.2	2428.0	2167.5
12.5°	2784.1	2795.6	2841.6	2923.3	3013.9	3066.2	3040.7	2923.3	2662.8	2636.0	2272.2
15°	2685.8	2699.9	2765.0	2891.3	3053.5	3201.5	3265.4	3181.1	2897.7	2854.3	2398.6
17.5°	2540.3	2560.7	2653.9	2821.1	3043.2	3298.6	3478.5	3450.5	3147.9	3107.1	2536.5
20°	2430.5	2445.8	2525.0	2716.5	2999.8	3352.2	3681.5	3760.7	3456.8	3386.6	2698.6
22.5°	2503.3	2508.4	2535.2	2650.1	2922.0	3366.2	3860.2	4083.6	3784.9	3722.4	2867.1
25°	2859.4	2808.4	2781.6	2756.0	2905.4	3353.4	4022.3	4420.6	4111.7	4045.3	3034.3
27.5°	3421.1	3398.1	3262.8	3081.5	3047.1	3370.0	4129.6	4739.8	4419.3	4347.9	3197.7
30°	4032.6	3993.0	3910.0	3644.5	3377.7	3487.5	4207.4	5050.0	4783.2	4688.7	3347.1
32.5°	4594.2	4619.8	4495.9	4222.8	3913.8	3737.7	4308.3	5388.2	5200.6	5083.1	3520.7
35°	5249.1	5300.2	5110.0	4848.3	4487.0	4189.6	4504.9	5769.9	5730.3	5582.3	3788.7
37.5°	5914.2	5944.8	5828.6	5461.0	5135.5	4764.0	4875.1	6241.0	6382.7	6256.3	4109.2
40°	6473.3	6515.4	6429.9	6103.1	5755.9	5429.1	5412.5	6754.1	7158.8	7028.6	4586.6
42.5°	6900.9	6932.8	6935.4	6704.3	6391.6	6243.5	6098.0	7409.0	8131.5	7980.9	5140.6
45°	7440.9	7486.9	7460.0	7303.0	7069.4	7042.6	6967.3	8200.4	9295.7	9105.5	5859.3
47.5°	8275.7	8306.4	8240.0	8054.9	7817.5	7859.6	7814.9	9087.6	10482.9	10319.5	6603.5
50°	8855.3	8906.4	9000.8	9074.9	8902.5	8746.8	8614.0	9916.1	11610.0	11463.2	7364.3
52.5°	8848.9	8933.2	9231.9	9604.6	9981.2	9934.0	9552.3	10831.4	12686.2	12504.9	8079.2
55°	8252.8	8416.2	8855.3	9516.5	10559.5	11079.0	10905.4	11890.9	13615.5	13492.9	8907.6
57.5°	7022.2	7121.8	7731.9	8656.2	10236.5	11617.7	12473.0	13327.0	14729.9	14672.4	10194.4
60°	4723.2	4767.8	5552.9	6695.4	8714.9	11080.3	13621.9	15064.3	16102.2	16074.1	11696.9
62.5°	2706.2	2725.4	3294.7	4258.5	6201.4	9390.2	13718.9	17207.6	17747.6	17762.9	13435.5
65°	1456.5	1466.7	1926.3	2499.4	3773.4	6692.9	12336.4	18382.0	19077.8	19107.1	14512.9
66°	1257.4	1208.9	1533.1	2130.5	3002.4	5327.0	11462.0	18339.9	19333.1	19301.1	14474.6
67.5°	956.1	999.5	1224.2	1637.8	2225.0	3787.5	9462.9	17524.2	19139.0	19039.5	13886.1
70°	684.2	702.1	871.9	1168.0	1515.2	2078.2	6046.9	14555.0	17395.3	17261.2	12097.7
72.5°	441.7	460.8	617.8	845.1	1095.3	1134.8	3385.4	10516.1	13411.2	13392.1	9110.6
75°	315.3	333.2	408.5	605.1	823.4	702.1	1630.1	7087.3	8525.9	8468.5	5635.9
77.5°	228.5	237.4	273.2	395.7	588.5	503.0	755.7	3784.9	4244.5	4444.9	2490.5
80°	131.5	139.1	190.2	241.3	398.3	343.4	361.3	1519.1	1566.3	1491.0	778.7
82.5°	65.1	74.0	113.6	164.7	248.9	231.1	165.9	457.0	482.5	469.8	196.6
85°	15.3	19.1	63.8	108.5	121.3	103.4	80.4	134.0	165.9	162.1	75.3
87.5°	1.3	2.6	23.0	19.1	20.4	34.5	28.1	34.5	53.6	49.8	26.8
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°	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0	1888.0
2.5°	1904.6	1880.3	1810.1	1741.2	1683.7	1623.7	1568.9	1536.9	1524.2	1510.1	1516.5
5°	1931.4	1872.7	1731.0	1608.4	1488.4	1386.3	1304.6	1252.3	1226.7	1222.9	1216.5
7.5°	1967.1	1866.3	1646.7	1455.2	1298.2	1184.6	1091.4	1016.1	993.1	972.7	956.1
10°	2010.5	1854.8	1542.0	1294.4	1127.2	984.2	861.7	772.3	726.3	713.6	722.5
12.5°	2056.5	1833.1	1432.3	1146.3	953.6	771.0	657.4	612.7	600.0	594.9	596.1
15°	2102.4	1806.3	1317.4	1003.4	759.5	615.3	563.0	551.5	546.4	543.8	541.2
17.5°	2144.6	1762.9	1188.5	864.2	615.3	525.9	506.8	496.6	486.4	482.5	476.1
20°	2194.4	1713.1	1072.3	708.5	520.8	476.1	453.2	434.0	418.7	408.5	407.2
22.5°	2241.6	1649.3	951.0	587.2	474.9	427.6	390.6	370.2	352.3	339.6	343.4
25°	2267.1	1571.4	842.5	511.9	432.7	379.1	338.3	312.8	293.6	287.2	285.9
27.5°	2267.1	1475.7	736.6	468.5	394.4	335.7	293.6	269.3	256.6	247.6	248.9
30°	2249.2	1369.7	638.3	435.3	361.3	297.4	257.9	236.2	225.9	219.6	218.3
32.5°	2235.2	1268.9	554.0	403.4	326.8	264.2	229.8	213.2	203.0	196.6	196.6
35°	2256.9	1182.1	488.9	371.5	294.9	238.7	208.1	192.8	182.5	177.4	176.2
37.5°	2314.4	1102.9	439.1	337.0	265.5	217.0	192.8	174.9	164.7	158.3	155.7
40°	2456.0	1058.2	402.1	305.1	237.4	199.1	174.9	158.3	145.5	139.1	137.9
42.5°	2683.3	1059.5	366.4	275.7	215.7	183.8	159.6	140.4	126.4	120.0	118.7
45°	3025.4	1108.0	338.3	247.6	196.6	167.2	143.0	122.5	109.8	103.4	103.4
47.5°	3435.1	1202.5	314.0	223.4	178.7	151.9	126.4	106.0	93.2	88.1	88.1
50°	3879.4	1325.0	289.8	197.9	163.4	135.3	108.5	91.9	81.7	77.9	77.9
52.5°	4332.5	1473.1	265.5	177.4	146.8	117.4	93.2	81.7	72.8	70.2	68.9
55°	4927.4	1662.0	240.0	155.7	128.9	100.8	83.0	71.5	61.3	57.4	56.2
57.5°	5842.7	1946.7	211.9	136.6	106.0	84.3	71.5	60.0	48.5	42.1	40.8
60°	6946.9	2293.9	182.5	120.0	85.5	68.9	57.4	46.0	35.7	28.1	26.8
62.5°	7980.9	2514.8	154.5	100.8	67.7	52.3	40.8	34.5	25.5	17.9	16.6
65°	8437.9	2440.7	127.7	81.7	53.6	37.0	26.8	24.3	15.3	7.7	6.4
66°	8286.0	2330.9	117.4	74.0	48.5	31.9	23.0	20.4	11.5	3.8	3.8
67.5°	7837.9	2071.8	102.1	63.8	42.1	25.5	17.9	15.3	6.4	1.3	0.0
70°	6715.8	1676.1	80.4	47.2	30.6	17.9	10.2	7.7	3.8	0.0	0.0
72.5°	5158.5	1248.4	63.8	35.7	21.7	10.2	5.1	2.6	3.8	0.0	0.0
75°	3160.7	713.6	49.8	26.8	14.0	6.4	3.8	0.0	3.8	1.3	0.0
77.5°	1402.9	320.4	33.2	17.9	10.2	5.1	2.6	0.0	2.6	1.3	0.0
80°	354.9	104.7	19.1	12.8	7.7	3.8	1.3	0.0	2.6	2.6	1.3
82.5°	97.0	38.3	14.0	10.2	6.4	3.8	1.3	0.0	2.6	2.6	2.6
85°	38.3	17.9	12.8	10.2	7.7	3.8	1.3	0.0	2.6	2.6	2.6
87.5°	17.9	12.8	12.8	11.5	8.9	3.8	1.3	0.0	2.6	1.3	2.6
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)