

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: P453260

Luminaire Tested: **GALN-SA4B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453260  
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-SA4B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 14762 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

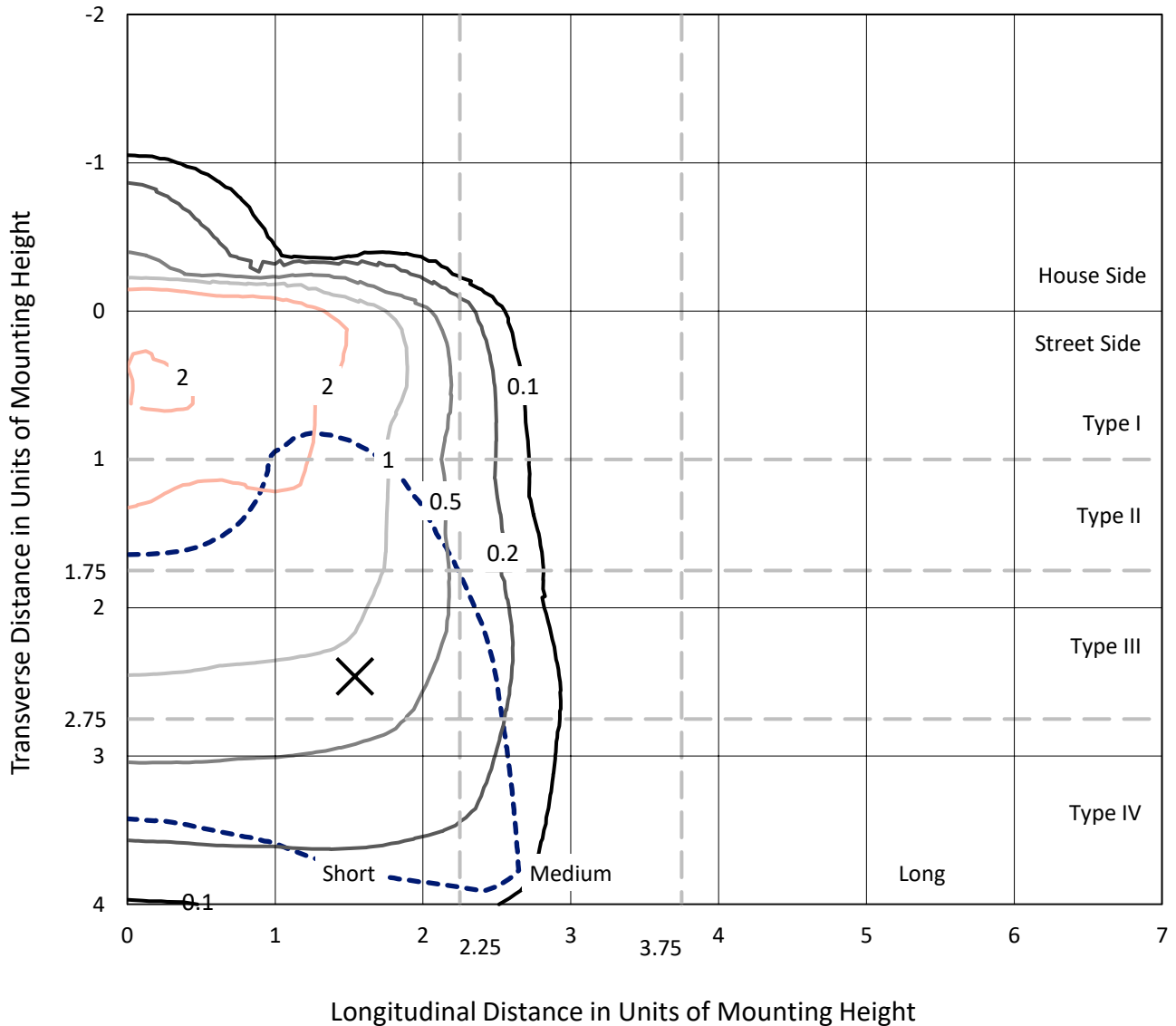
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

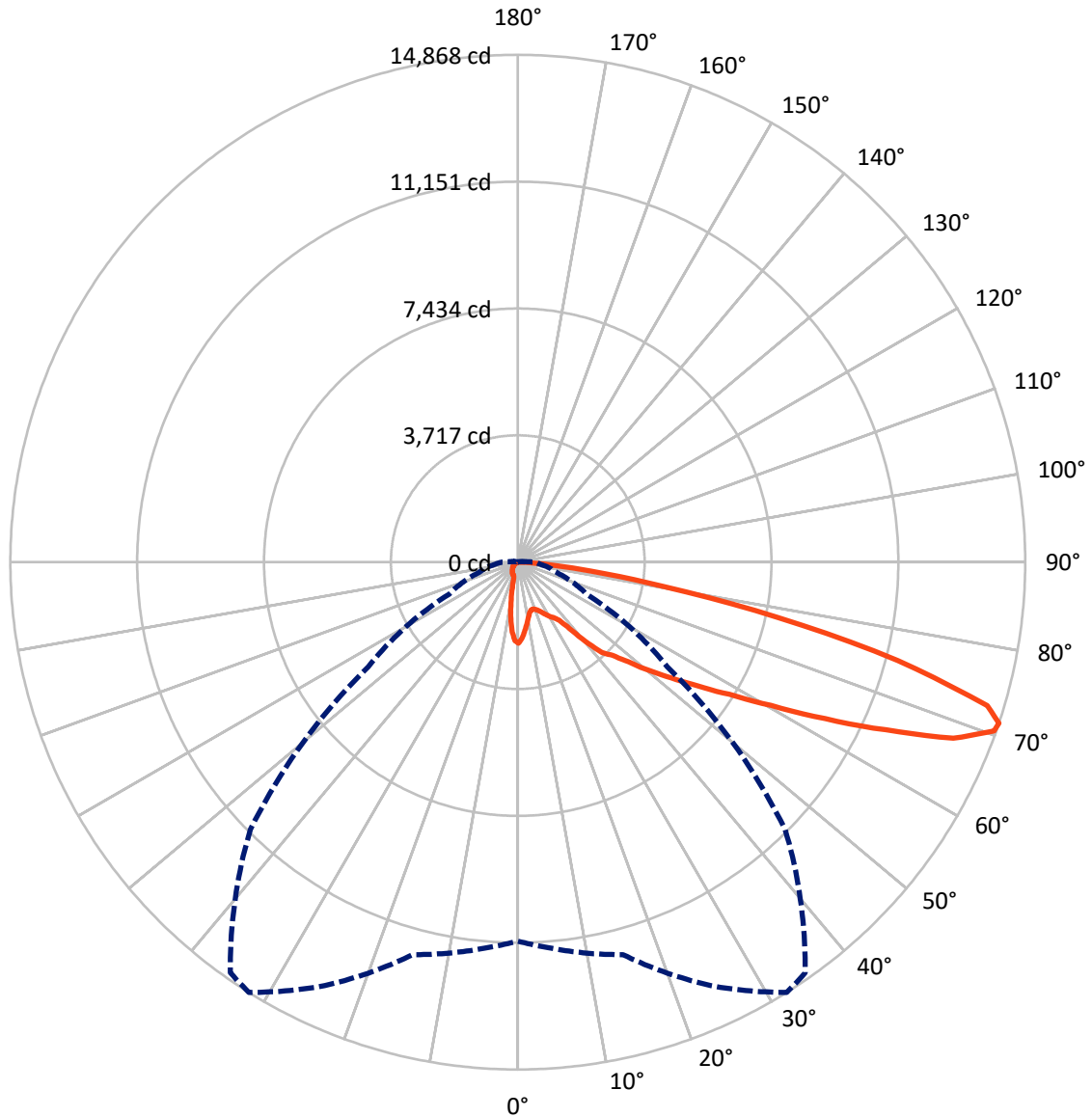
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1236.5	0.0	1236.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	13525.5	0.0	13525.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	14762.0	0.0	14762.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.0	1.3
10°-20°	419.0	2.8
20°-30°	651.7	4.4
30°-40°	1085.8	7.4
40°-50°	2019.8	13.7
50°-60°	3242.9	22.0
60°-70°	4361.8	29.5
70°-80°	2587.9	17.5
80°-90°	200.0	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°	14762.0	100.0
0°-180°	14762.0	100.0



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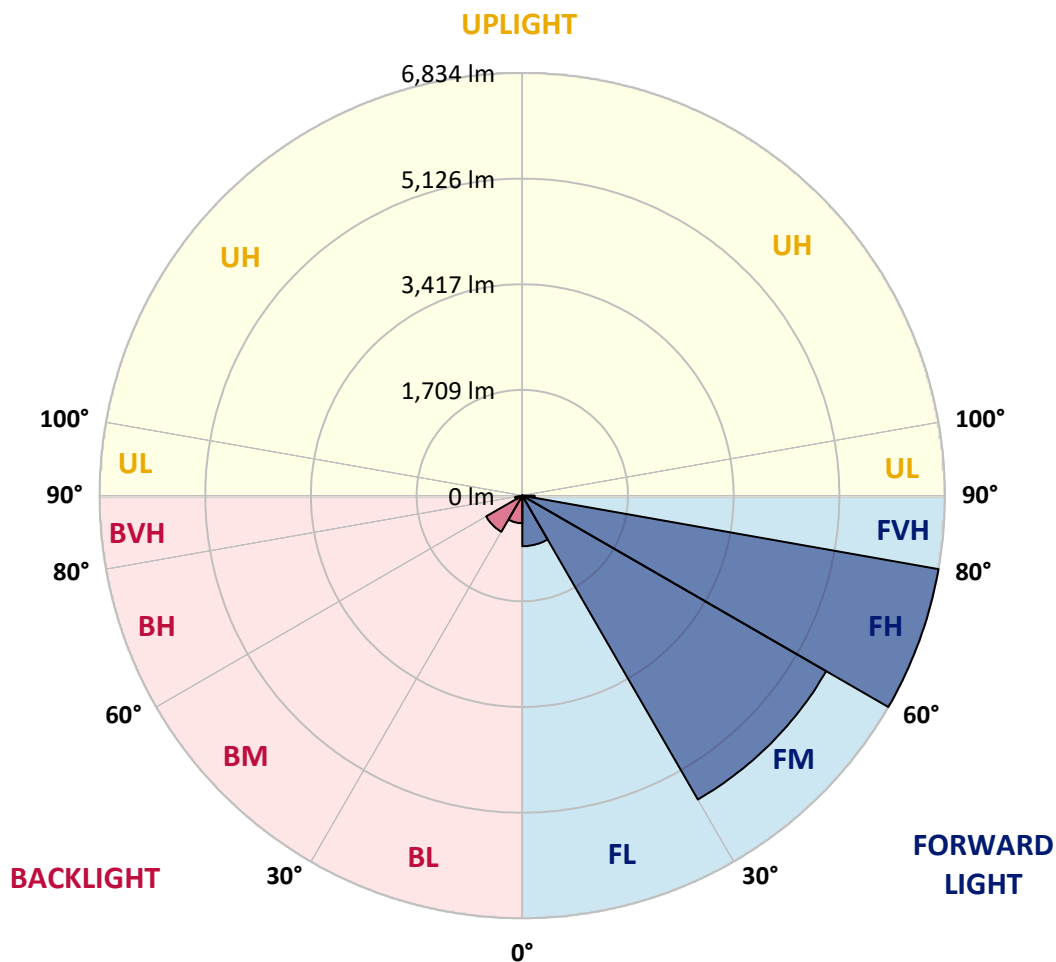
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.2	5.5			
FM	(30°-60°)	5674.0	38.4			
FH	(60°-80°)	6834.1	46.3			G3/7500
FVH	(80°-90°)	199.3	1.3			G2/225
BL	(0°-30°)	445.5	3.0	B1/500		
BM	(30°-60°)	674.5	4.6	B1/1000		
BH	(60°-80°)	115.6	0.8	B1/500		G1/500
BVH	(80°-90°)	0.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0
2.5°	2201.7	2224.4	2221.0	2228.9	2248.2	2256.1	2277.6	2301.4	2334.3	2357.0	2371.7
5°	1971.7	1988.7	1991.0	2030.6	2049.9	2071.4	2134.9	2204.0	2281.0	2342.2	2383.0
7.5°	1725.8	1734.9	1753.0	1805.1	1853.8	1875.4	1971.7	2091.8	2213.1	2327.5	2401.2
10°	1523.0	1533.2	1566.0	1621.5	1666.9	1695.2	1828.9	1979.6	2149.6	2319.6	2427.2
12.5°	1407.4	1413.0	1425.5	1475.4	1533.2	1563.8	1707.7	1879.9	2098.6	2323.0	2471.4
15°	1399.4	1397.2	1382.4	1402.8	1455.0	1486.7	1627.2	1811.9	2053.3	2334.3	2523.5
17.5°	1441.4	1435.7	1400.6	1400.6	1443.6	1469.7	1593.2	1775.7	2030.6	2360.4	2597.2
20°	1506.0	1496.9	1439.1	1434.6	1476.5	1503.7	1613.6	1777.9	2035.1	2409.1	2695.8
22.5°	1587.6	1577.4	1490.1	1492.4	1537.7	1564.9	1672.5	1818.7	2063.5	2469.1	2801.2
25°	1694.1	1682.7	1579.6	1575.1	1622.7	1646.5	1759.8	1891.2	2103.1	2543.9	2939.4
27.5°	1835.7	1811.9	1688.4	1681.6	1732.6	1763.2	1865.2	1988.7	2173.4	2647.1	3125.2
30°	1952.4	1926.4	1808.5	1790.4	1844.8	1868.6	1974.0	2120.1	2311.6	2827.2	3382.5
32.5°	2105.4	2066.9	1928.6	1881.0	1938.8	1969.4	2131.5	2364.9	2516.7	3017.6	3688.4
35°	2449.9	2426.1	2257.2	2090.7	2087.3	2125.8	2363.8	2611.9	2727.5	3314.5	4105.4
37.5°	2942.8	2925.8	2746.8	2523.5	2458.9	2440.8	2645.9	2883.9	3064.1	3722.4	4590.4
40°	3515.0	3475.4	3311.1	3121.8	3038.0	2984.7	2979.1	3288.4	3503.7	4276.5	5095.8
42.5°	3925.2	3852.7	3653.3	3639.7	3621.6	3566.0	3405.1	3879.9	4071.4	4872.6	5636.3
45°	4355.8	4245.9	3949.0	3898.1	3891.3	3887.9	4048.8	4580.2	4690.1	5518.5	6191.6
47.5°	4690.1	4602.9	4359.2	4336.6	4364.9	4442.0	4899.8	5323.6	5300.9	6094.1	6657.3
50°	5135.5	5069.7	4798.9	4842.0	4988.1	5113.9	5859.5	6133.8	5802.9	6547.4	6996.1
52.5°	5661.2	5540.0	5288.4	5405.2	5629.5	5839.1	6878.3	6843.1	6155.3	6888.5	7248.8
55°	6116.8	6030.7	5944.5	6065.8	6401.2	6663.0	7798.4	7374.6	6411.4	7162.7	7359.8
57.5°	6887.3	6866.9	6778.5	6902.0	7308.9	7580.8	8622.2	7787.0	6575.7	7305.5	7229.5
60°	8027.3	7994.4	7830.1	7987.6	8517.9	8945.1	9381.4	8157.6	6613.1	7249.9	6854.5
62.5°	9398.4	9286.2	9145.7	9378.0	10105.5	10293.6	10096.4	8377.4	6473.7	6808.0	5950.2
65°	10678.9	10563.3	10566.7	11056.2	11848.3	11976.3	10930.4	8344.6	6065.8	5700.9	4388.7
67.5°	11659.0	11639.8	11778.0	12733.3	13769.0	13680.6	11676.0	7852.8	4856.7	3695.2	2332.0
70°	11708.9	11746.3	12142.9	13755.4	14806.9	14666.4	11612.6	6383.1	3027.8	1699.7	919.0
71°	11106.1	11357.6	11906.1	13723.6	14868.1	14685.7	11077.7	5346.2	2221.0	1185.3	662.9
72.5°	9464.1	9596.7	10782.0	12915.7	14384.3	13994.5	9721.3	3747.3	1422.1	725.2	380.7
75°	5212.5	5538.9	7220.5	10132.7	11504.9	11162.7	6335.5	1780.2	709.4	396.6	157.5
77.5°	2481.6	2418.2	3523.0	6026.1	7800.6	7782.5	3192.1	790.9	413.6	268.6	79.3
80°	709.4	797.7	1348.5	2864.6	4330.9	4378.5	1226.1	381.9	286.7	209.6	40.8
82.5°	214.2	218.7	495.2	1266.9	2154.1	2030.6	460.1	194.9	206.2	166.6	23.8
85°	37.4	46.5	146.2	446.5	821.5	623.2	115.6	92.9	136.0	109.9	13.6
87.5°	2.3	3.4	48.7	51.0	72.5	41.9	20.4	13.6	29.5	29.5	7.9
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°	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0
2.5°	2381.9	2388.7	2384.2	2374.0	2357.0	2336.6	2309.4	2286.7	2267.4	2257.2	2269.7
5°	2396.6	2405.7	2383.0	2332.0	2255.0	2171.1	2075.9	2002.3	1944.5	1926.4	1919.6
7.5°	2419.3	2425.0	2363.8	2250.4	2087.3	1889.0	1715.6	1569.4	1456.1	1422.1	1372.3
10°	2448.7	2445.3	2329.8	2119.0	1832.3	1534.3	1265.7	1066.3	915.6	861.2	856.7
12.5°	2494.1	2475.9	2286.7	1940.0	1528.6	1138.8	806.8	631.2	536.0	504.3	497.5
15°	2550.7	2507.7	2218.7	1730.3	1170.5	735.4	497.5	444.2	431.7	429.5	427.2
17.5°	2617.6	2549.6	2129.2	1473.1	822.7	477.1	415.9	414.7	415.9	413.6	412.5
20°	2708.2	2593.8	2022.7	1168.3	543.9	402.3	396.6	396.6	397.7	396.6	396.6
22.5°	2804.6	2645.9	1891.2	891.8	410.2	381.9	380.7	383.0	385.3	384.1	384.1
25°	2923.5	2713.9	1717.9	610.8	367.1	364.9	366.0	370.5	375.1	376.2	375.1
27.5°	3095.8	2797.8	1532.0	420.4	336.5	338.8	350.1	361.5	368.3	369.4	369.4
30°	3289.5	2890.7	1289.5	341.1	311.6	311.6	325.2	346.7	361.5	363.7	364.9
32.5°	3538.8	2998.3	1021.0	307.1	287.8	285.6	298.0	324.1	351.3	359.2	359.2
35°	3847.1	3125.2	759.2	285.6	270.8	265.2	272.0	293.5	328.6	351.3	353.5
37.5°	4208.5	3245.4	555.2	266.3	255.0	247.0	251.6	268.6	296.9	330.9	339.9
40°	4542.8	3351.9	414.7	250.4	239.1	233.4	236.8	244.8	268.6	300.3	306.0
42.5°	4907.7	3434.6	329.7	233.4	223.2	221.0	221.0	224.4	240.2	258.4	259.5
45°	5271.4	3464.1	276.5	213.0	206.2	208.5	207.4	205.1	211.9	209.6	209.6
47.5°	5530.9	3428.9	228.9	193.8	193.8	197.2	191.5	183.6	180.2	166.6	167.7
50°	5708.8	3300.9	188.1	171.1	180.2	184.7	173.4	160.9	148.4	133.7	130.3
52.5°	5782.5	3073.1	154.1	141.6	159.8	165.4	151.8	137.1	117.8	105.4	102.0
55°	5734.9	2792.1	128.0	115.6	134.8	141.6	128.0	111.0	89.5	75.9	73.7
57.5°	5525.3	2456.7	108.8	91.8	107.6	112.2	103.1	85.0	63.5	49.9	49.9
60°	5162.7	2109.9	88.4	72.5	80.5	87.3	78.2	61.2	43.1	30.6	28.3
62.5°	4427.2	1713.3	71.4	56.7	56.7	62.3	54.4	44.2	27.2	15.9	14.7
65°	3196.6	1175.1	56.7	41.9	40.8	40.8	34.0	29.5	15.9	6.8	4.5
67.5°	1737.1	662.9	45.3	31.7	28.3	27.2	21.5	17.0	6.8	1.1	0.0
70°	683.3	255.0	35.1	21.5	18.1	17.0	11.3	7.9	4.5	0.0	0.0
71°	463.5	175.6	30.6	18.1	14.7	12.5	9.1	6.8	3.4	0.0	0.0
72.5°	265.2	108.8	23.8	13.6	11.3	9.1	6.8	4.5	3.4	0.0	0.0
75°	115.6	55.5	14.7	10.2	7.9	5.7	4.5	3.4	1.1	0.0	0.0
77.5°	58.9	30.6	10.2	7.9	4.5	3.4	2.3	1.1	0.0	0.0	0.0
80°	32.9	15.9	6.8	4.5	3.4	2.3	1.1	1.1	0.0	0.0	0.0
82.5°	18.1	9.1	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.3	0.0	0.0	0.0	0.0	1.1	1.1	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)