

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: P455000

Luminaire Tested: **GALN-SA6A-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455000  
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-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 14355 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

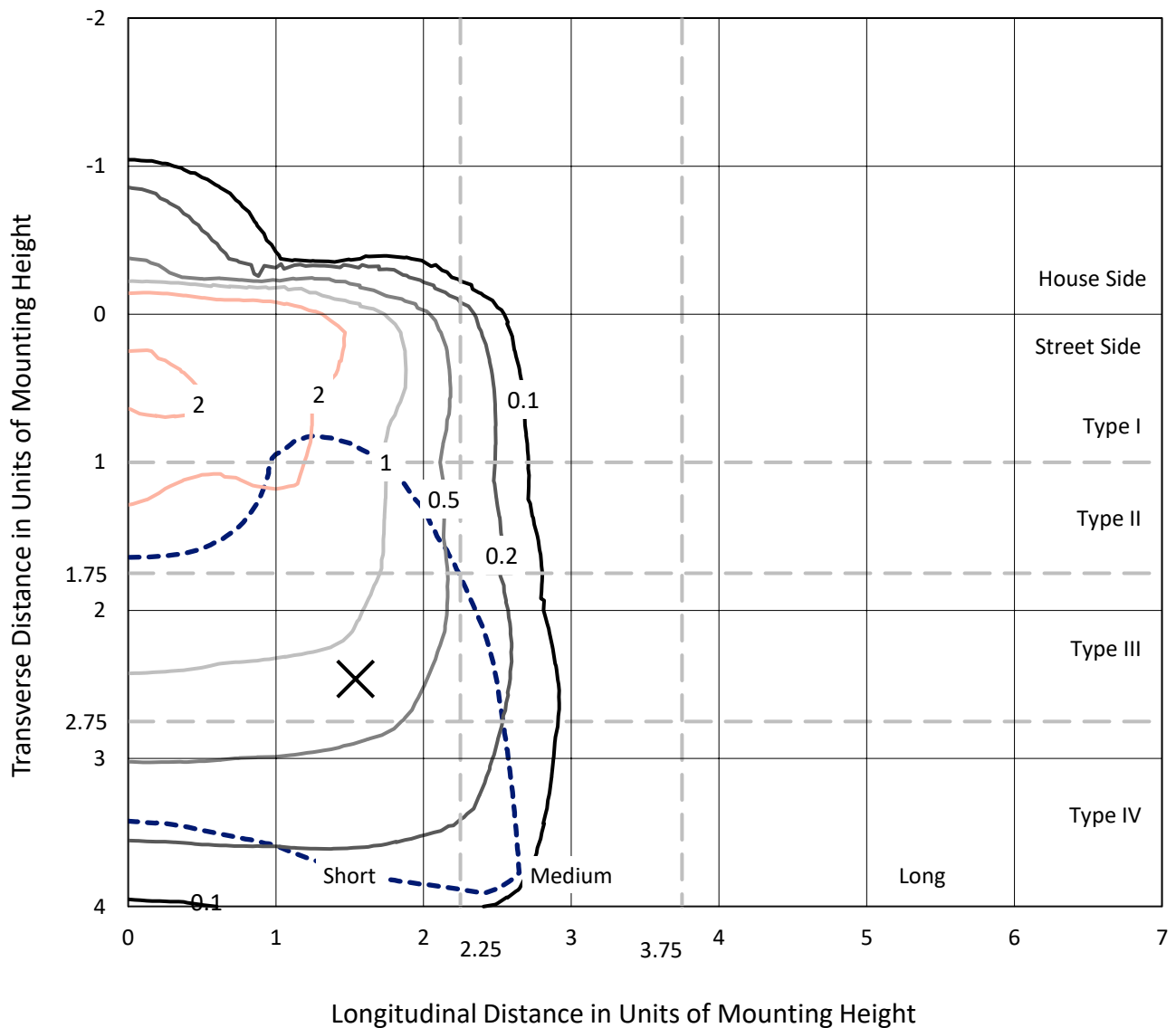
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

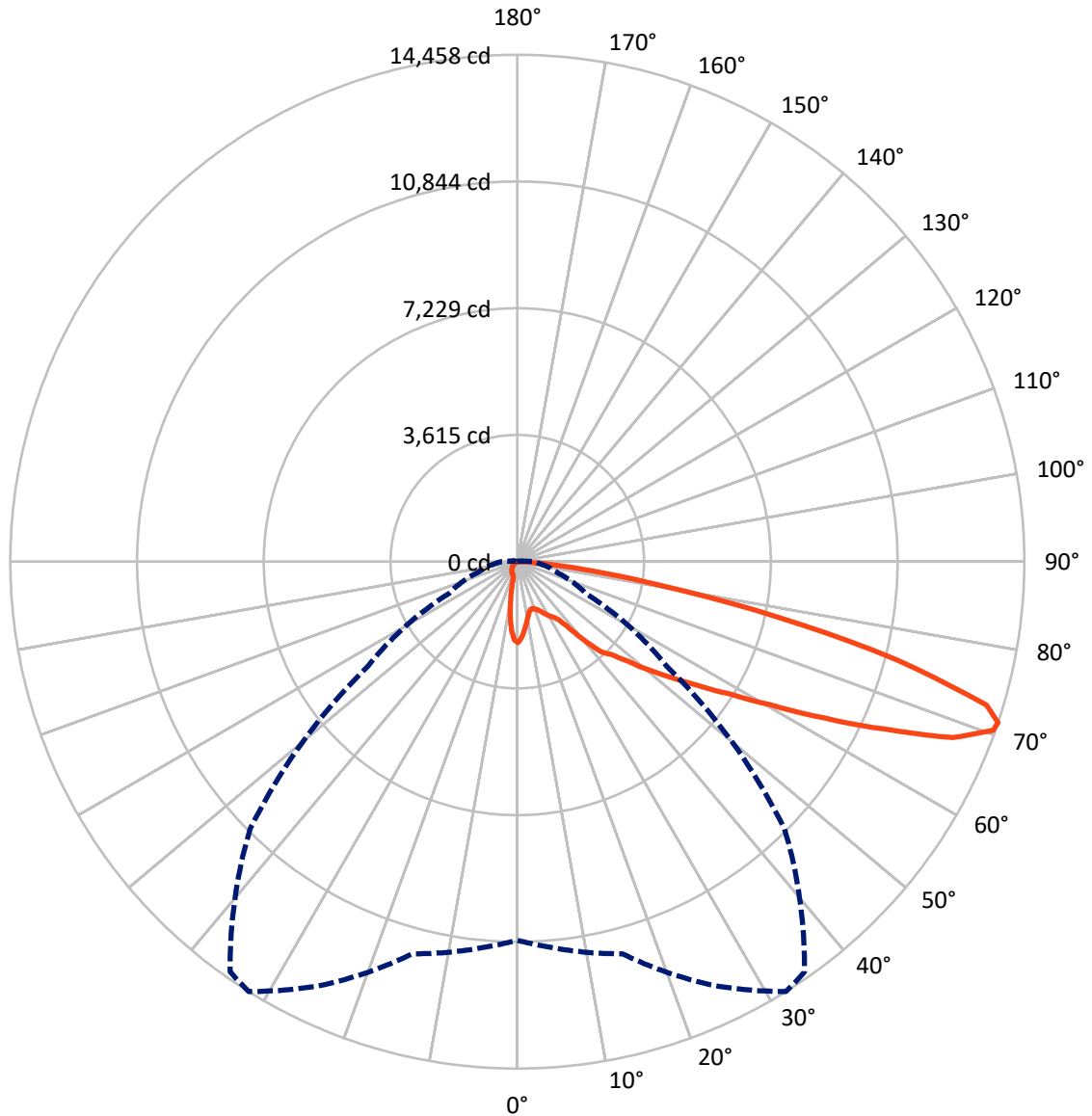
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1202.4	0.0	1202.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	13152.6	0.0	13152.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	14355.0	0.0	14355.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	1.3
10°-20°	407.4	2.8
20°-30°	633.8	4.4
30°-40°	1055.9	7.4
40°-50°	1964.1	13.7
50°-60°	3153.5	22.0
60°-70°	4241.5	29.5
70°-80°	2516.6	17.5
80°-90°	194.5	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°	14355.0	100.0
0°-180°	14355.0	100.0



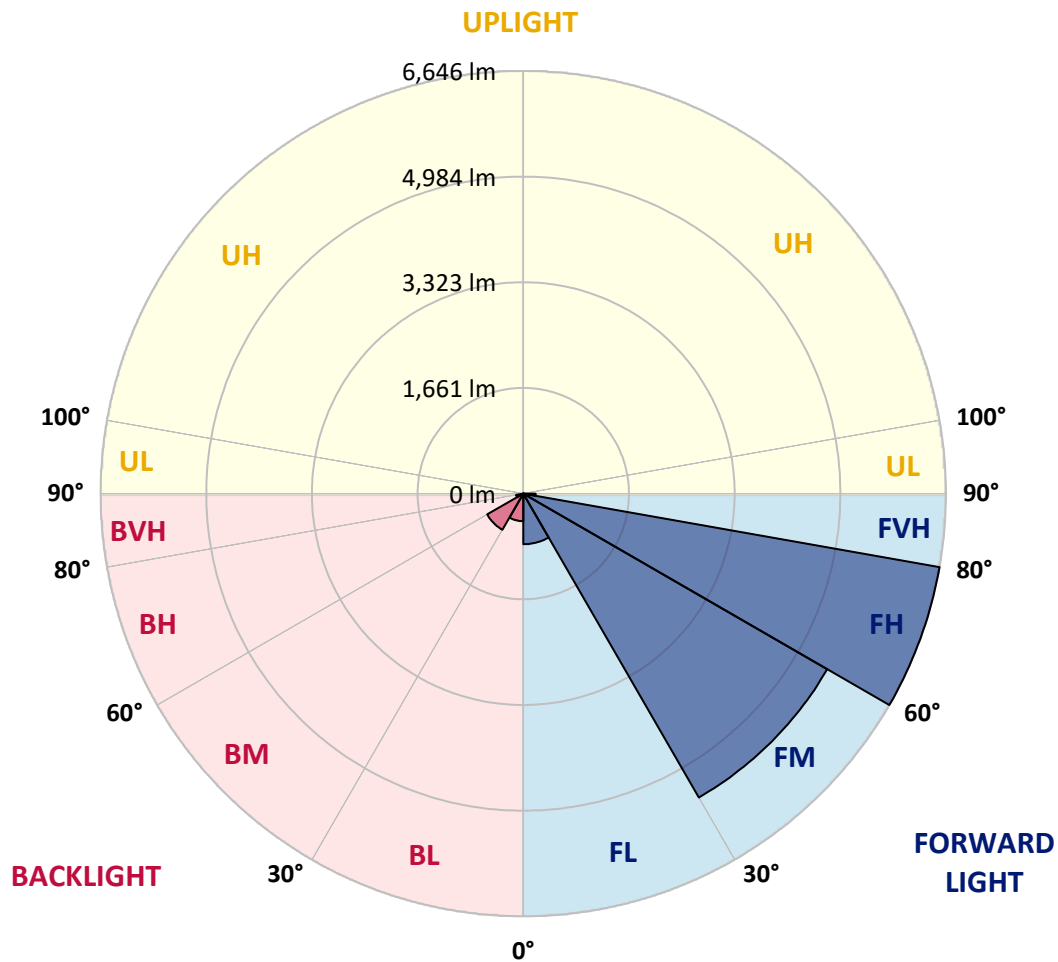
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.7	5.5			
FM	(30°-60°)	5517.5	38.4			
FH	(60°-80°)	6645.7	46.3			G3/7500
FVH	(80°-90°)	193.8	1.3			G2/225
BL	(0°-30°)	433.2	3.0	B1/500		
BM	(30°-60°)	655.9	4.6	B1/1000		
BH	(60°-80°)	112.5	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°	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5
2.5°	2141.0	2163.1	2159.7	2167.5	2186.2	2193.9	2214.8	2238.0	2269.9	2292.0	2306.3
5°	1917.3	1933.9	1936.1	1974.6	1993.4	2014.3	2076.0	2143.2	2218.2	2277.7	2317.3
7.5°	1678.2	1687.0	1704.7	1755.3	1802.7	1823.7	1917.3	2034.1	2152.0	2263.3	2335.0
10°	1481.0	1490.9	1522.8	1576.8	1620.9	1648.5	1778.5	1925.0	2090.3	2255.6	2360.3
12.5°	1368.6	1374.1	1386.2	1434.7	1490.9	1520.6	1660.6	1828.1	2040.7	2258.9	2403.3
15°	1360.9	1358.7	1344.3	1364.2	1414.9	1445.7	1582.3	1762.0	1996.7	2269.9	2454.0
17.5°	1401.6	1396.1	1362.0	1362.0	1403.8	1429.2	1549.3	1726.7	1974.6	2295.3	2525.6
20°	1464.4	1455.6	1399.4	1395.0	1435.8	1462.2	1569.1	1728.9	1979.0	2342.7	2621.5
22.5°	1543.8	1533.9	1449.0	1451.2	1495.3	1521.7	1626.4	1768.6	2006.6	2401.1	2723.9
25°	1647.4	1636.3	1536.1	1531.7	1577.9	1601.1	1711.3	1839.1	2045.2	2473.8	2858.4
27.5°	1785.1	1762.0	1641.9	1635.2	1684.8	1714.6	1813.7	1933.9	2113.5	2574.1	3039.1
30°	1898.6	1873.3	1758.7	1741.0	1793.9	1817.1	1919.5	2061.7	2247.9	2749.3	3289.2
32.5°	2047.4	2009.9	1875.5	1829.2	1885.4	1915.1	2072.7	2299.7	2447.3	2934.4	3586.7
35°	2382.3	2359.2	2195.0	2033.0	2029.7	2067.2	2298.6	2539.9	2652.3	3223.1	3992.2
37.5°	2861.7	2845.1	2671.0	2454.0	2391.2	2373.5	2573.0	2804.4	2979.6	3619.8	4463.9
40°	3418.1	3379.6	3219.8	3035.8	2954.2	2902.4	2896.9	3197.8	3407.1	4158.6	4955.3
42.5°	3817.0	3746.5	3552.6	3539.3	3521.7	3467.7	3311.2	3773.0	3959.2	4738.2	5480.9
45°	4235.8	4128.9	3840.2	3790.6	3784.0	3780.7	3937.1	4453.9	4560.8	5366.3	6020.9
47.5°	4560.8	4476.0	4239.1	4217.0	4244.6	4319.5	4764.7	5176.8	5154.8	5926.1	6473.7
50°	4993.9	4930.0	4666.6	4708.5	4850.6	4972.9	5698.0	5964.7	5642.9	6366.9	6803.2
52.5°	5505.2	5387.3	5142.6	5256.1	5474.3	5678.2	6688.6	6654.5	5985.6	6698.5	7048.9
55°	5948.1	5864.4	5780.6	5898.5	6224.7	6479.2	7583.4	7171.3	6234.6	6965.2	7156.9
57.5°	6697.4	6677.6	6591.6	6711.8	7107.3	7371.8	8384.5	7572.3	6394.4	7104.0	7030.2
60°	7806.0	7774.0	7614.2	7767.4	8283.1	8698.5	9122.7	7932.7	6430.8	7050.0	6665.5
62.5°	9139.3	9030.2	8893.5	9119.4	9826.9	10009.8	9818.0	8146.4	6295.2	6620.3	5786.1
65°	10384.4	10272.0	10275.3	10751.4	11521.6	11646.1	10629.1	8114.5	5898.5	5543.7	4267.7
67.5°	11337.6	11318.9	11453.3	12382.2	13389.3	13303.4	11354.1	7636.3	4722.8	3593.3	2267.7
70°	11386.1	11422.4	11808.1	13376.1	14398.7	14262.1	11292.4	6207.1	2944.3	1652.9	893.7
71°	10799.9	11044.5	11577.8	13345.3	14458.2	14280.8	10772.3	5198.8	2159.7	1152.6	644.6
72.5°	9203.2	9332.1	10484.7	12559.6	13987.7	13608.6	9453.3	3644.0	1382.9	705.2	370.2
75°	5068.8	5386.2	7021.4	9853.3	11187.7	10854.9	6160.8	1731.1	689.8	385.7	153.2
77.5°	2413.2	2351.5	3425.8	5860.0	7585.6	7567.9	3104.1	769.1	402.2	261.2	77.1
80°	689.8	775.7	1311.3	2785.6	4211.5	4257.8	1192.3	371.3	278.8	203.9	39.7
82.5°	208.3	212.7	481.5	1231.9	2094.7	1974.6	447.4	189.5	200.5	162.0	23.1
85°	36.4	45.2	142.1	434.2	798.9	606.1	112.4	90.4	132.2	106.9	13.2
87.5°	2.2	3.3	47.4	49.6	70.5	40.8	19.8	13.2	28.6	28.6	7.7
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°	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5
2.5°	2316.2	2322.8	2318.4	2308.5	2292.0	2272.1	2245.7	2223.7	2204.9	2195.0	2207.1
5°	2330.5	2339.4	2317.3	2267.7	2192.8	2111.3	2018.7	1947.1	1890.9	1873.3	1866.6
7.5°	2352.6	2358.1	2298.6	2188.4	2029.7	1836.9	1668.3	1526.1	1416.0	1382.9	1334.4
10°	2381.2	2377.9	2265.5	2060.6	1781.8	1492.0	1230.8	1036.9	890.3	837.5	833.0
12.5°	2425.3	2407.7	2223.7	1886.5	1486.5	1107.4	784.6	613.8	521.2	490.4	483.7
15°	2480.4	2438.5	2157.5	1682.6	1138.3	715.1	483.7	431.9	419.8	417.6	415.4
17.5°	2545.4	2479.3	2070.5	1432.5	800.0	463.9	404.4	403.3	404.4	402.2	401.1
20°	2633.6	2522.3	1966.9	1136.1	528.9	391.2	385.7	385.7	386.8	385.7	385.7
22.5°	2727.2	2573.0	1839.1	867.2	398.9	371.3	370.2	372.4	374.7	373.5	373.5
25°	2842.9	2639.1	1670.5	593.9	357.0	354.8	355.9	360.3	364.7	365.8	364.7
27.5°	3010.4	2720.6	1489.8	408.8	327.3	329.5	340.5	351.5	358.1	359.2	359.2
30°	3198.9	2811.0	1254.0	331.7	303.0	303.0	316.2	337.2	351.5	353.7	354.8
32.5°	3441.3	2915.7	992.8	298.6	279.9	277.7	289.8	315.1	341.6	349.3	349.3
35°	3741.0	3039.1	738.3	277.7	263.4	257.8	264.5	285.4	319.6	341.6	343.8
37.5°	4092.5	3155.9	539.9	258.9	247.9	240.2	244.6	261.2	288.7	321.8	330.6
40°	4417.6	3259.5	403.3	243.5	232.5	227.0	230.3	238.0	261.2	292.0	297.5
42.5°	4772.4	3339.9	320.7	227.0	217.1	214.9	214.9	218.2	233.6	251.2	252.3
45°	5126.1	3368.5	268.9	207.2	200.5	202.8	201.7	199.4	206.1	203.9	203.9
47.5°	5378.4	3334.4	222.6	188.4	188.4	191.7	186.2	178.5	175.2	162.0	163.1
50°	5551.4	3209.9	182.9	166.4	175.2	179.6	168.6	156.5	144.4	130.0	126.7
52.5°	5623.1	2988.4	149.9	137.7	155.4	160.9	147.7	133.3	114.6	102.5	99.2
55°	5576.8	2715.1	124.5	112.4	131.1	137.7	124.5	108.0	87.1	73.8	71.6
57.5°	5372.9	2388.9	105.8	89.3	104.7	109.1	100.3	82.6	61.7	48.5	48.5
60°	5020.3	2051.8	85.9	70.5	78.2	84.8	76.0	59.5	41.9	29.8	27.5
62.5°	4305.2	1666.1	69.4	55.1	55.1	60.6	52.9	43.0	26.4	15.4	14.3
65°	3108.5	1142.7	55.1	40.8	39.7	39.7	33.1	28.6	15.4	6.6	4.4
67.5°	1689.2	644.6	44.1	30.9	27.5	26.4	20.9	16.5	6.6	1.1	0.0
70°	664.5	247.9	34.2	20.9	17.6	16.5	11.0	7.7	4.4	0.0	0.0
71°	450.7	170.8	29.8	17.6	14.3	12.1	8.8	6.6	3.3	0.0	0.0
72.5°	257.8	105.8	23.1	13.2	11.0	8.8	6.6	4.4	3.3	0.0	0.0
75°	112.4	54.0	14.3	9.9	7.7	5.5	4.4	3.3	1.1	0.0	0.0
77.5°	57.3	29.8	9.9	7.7	4.4	3.3	2.2	1.1	0.0	0.0	0.0
80°	32.0	15.4	6.6	4.4	3.3	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	17.6	8.8	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.2	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)