

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: P453608

Luminaire Tested: **GALN-SA4C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453608
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-SA4C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 14722 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

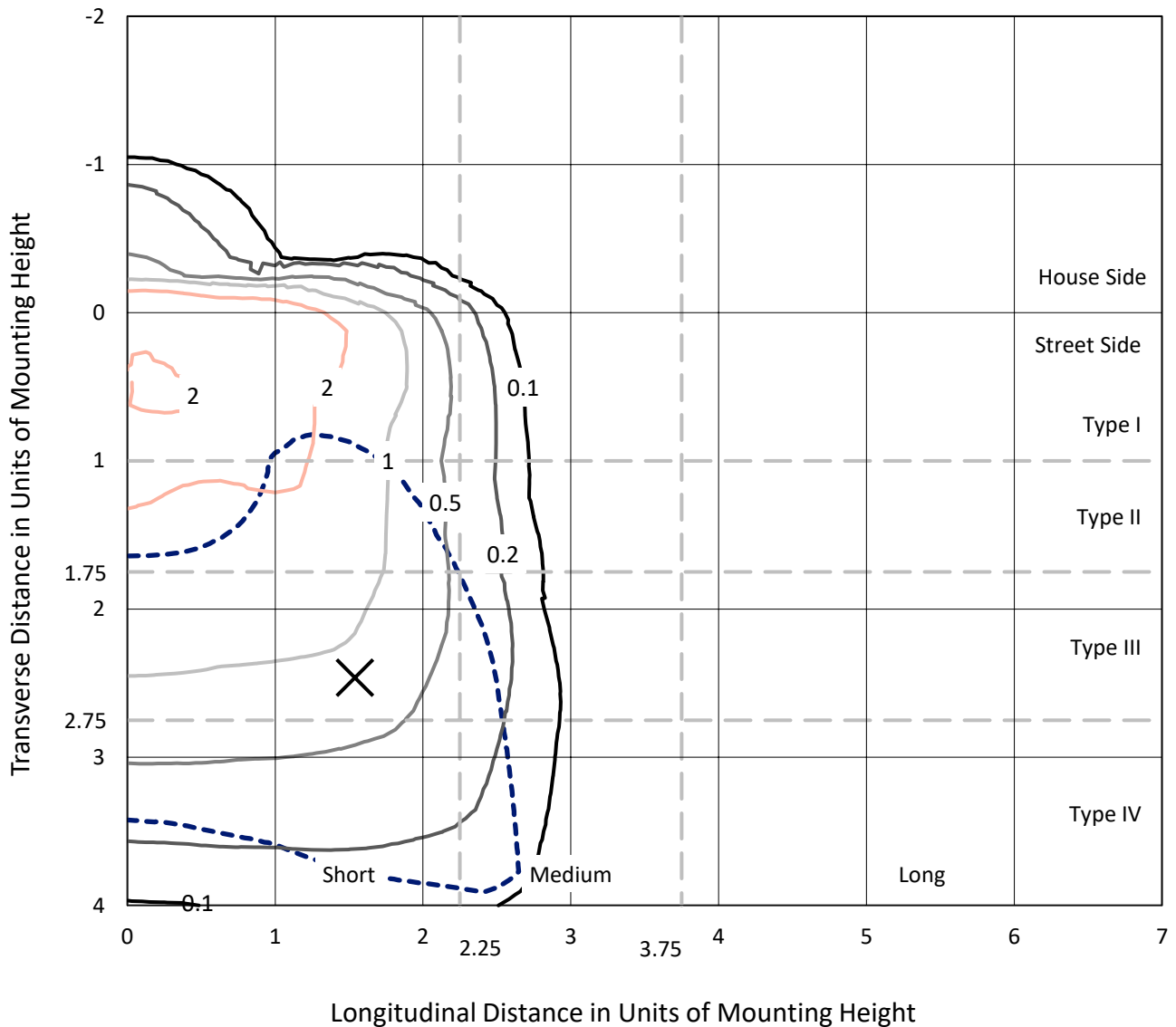
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

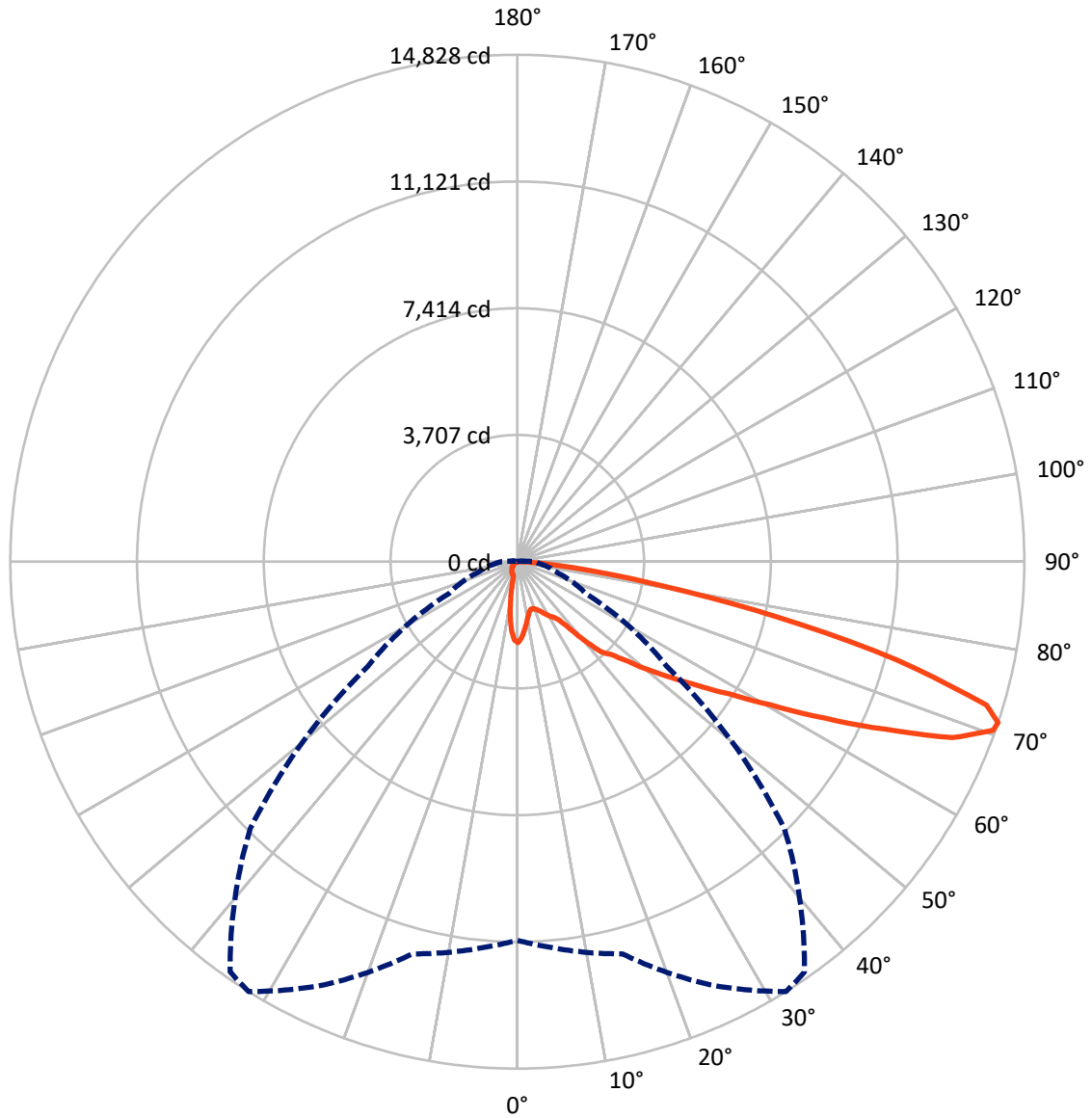
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1233.1	0.0	1233.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13488.9	0.0	13488.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	1.3
10°-20°	417.8	2.8
20°-30°	650.0	4.4
30°-40°	1082.9	7.4
40°-50°	2014.3	13.7
50°-60°	3234.1	22.0
60°-70°	4350.0	29.5
70°-80°	2580.9	17.5
80°-90°	199.5	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°	14722.0	100.0
0°-180°	14722.0	100.0

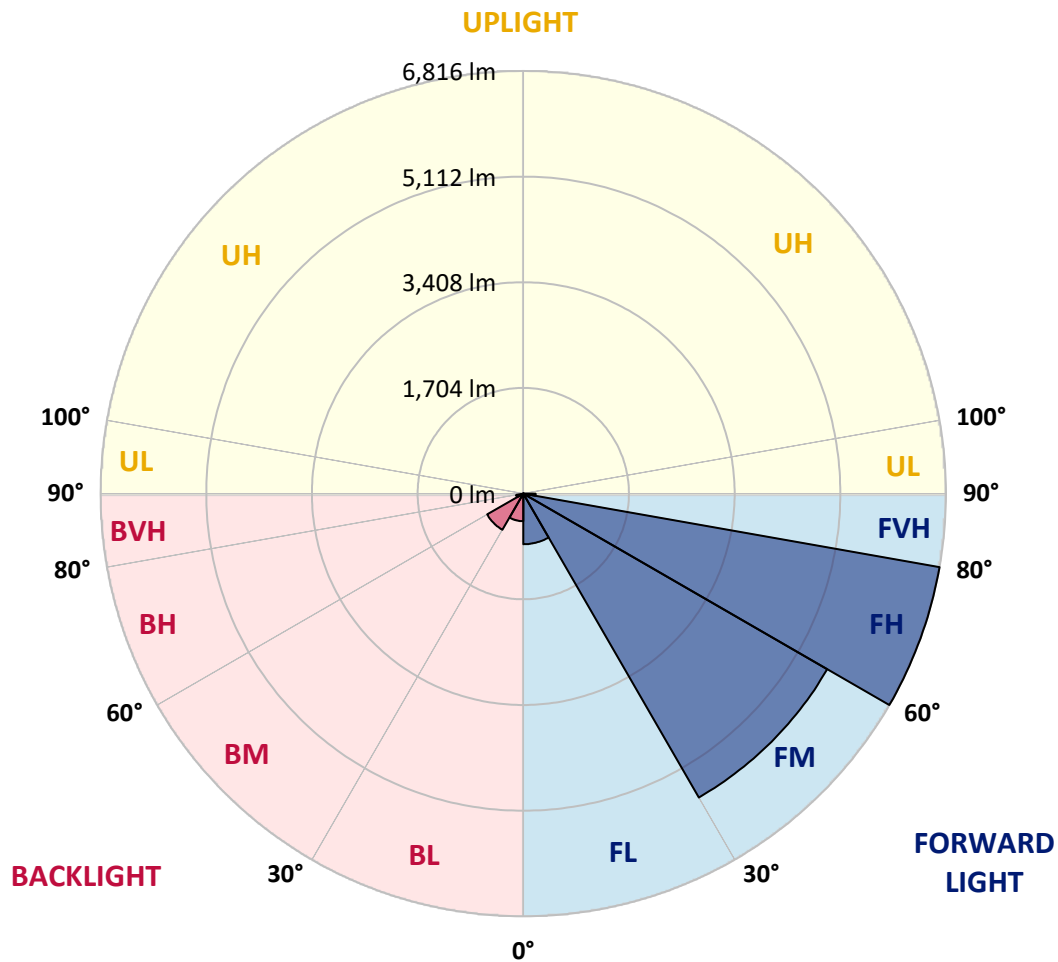


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.0	5.5			
FM	(30°-60°)	5658.6	38.4			
FH	(60°-80°)	6815.6	46.3			G3/7500
FVH	(80°-90°)	198.7	1.3			G2/225
BL	(0°-30°)	444.3	3.0	B1/500		
BM	(30°-60°)	672.7	4.6	B1/1000		
BH	(60°-80°)	115.3	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°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2195.8	2218.4	2215.0	2222.9	2242.1	2250.0	2271.5	2295.2	2328.0	2350.6	2365.3
5°	1966.3	1983.3	1985.6	2025.1	2044.3	2065.8	2129.1	2198.0	2274.9	2335.9	2376.6
7.5°	1721.1	1730.2	1748.2	1800.2	1848.8	1870.3	1966.3	2086.1	2207.1	2321.2	2394.6
10°	1518.8	1529.0	1561.8	1617.2	1662.4	1690.6	1824.0	1974.3	2143.8	2313.3	2420.6
12.5°	1403.6	1409.2	1421.6	1471.4	1529.0	1559.5	1703.0	1874.8	2092.9	2316.7	2464.7
15°	1395.7	1393.4	1378.7	1399.0	1451.0	1482.7	1622.8	1807.0	2047.7	2328.0	2516.7
17.5°	1437.5	1431.8	1396.8	1396.8	1439.7	1465.7	1588.9	1770.8	2025.1	2354.0	2590.2
20°	1501.9	1492.8	1435.2	1430.7	1472.5	1499.6	1609.2	1773.1	2029.6	2402.6	2688.5
22.5°	1583.2	1573.1	1486.1	1488.3	1533.5	1560.6	1668.0	1813.8	2057.9	2462.5	2793.6
25°	1689.5	1678.2	1575.3	1570.8	1618.3	1642.0	1755.0	1886.1	2097.4	2537.0	2931.4
27.5°	1830.7	1807.0	1683.8	1677.0	1727.9	1758.4	1860.1	1983.3	2167.5	2639.9	3116.8
30°	1947.1	1921.1	1803.6	1785.5	1839.8	1863.5	1968.6	2114.4	2305.4	2819.6	3373.3
32.5°	2099.7	2061.3	1923.4	1875.9	1933.6	1964.1	2125.7	2358.5	2509.9	3009.4	3678.4
35°	2443.2	2419.5	2251.1	2085.0	2081.6	2120.0	2357.4	2604.8	2720.1	3305.5	4094.3
37.5°	2934.8	2917.9	2739.3	2516.7	2452.3	2434.2	2638.7	2876.1	3055.7	3712.3	4578.0
40°	3505.5	3466.0	3302.1	3113.4	3029.8	2976.6	2971.0	3279.5	3494.2	4264.9	5082.0
42.5°	3914.6	3842.3	3643.4	3629.8	3611.8	3556.4	3395.9	3869.4	4060.4	4859.4	5621.0
45°	4344.0	4234.4	3938.3	3887.5	3880.7	3877.3	4037.8	4567.8	4677.4	5503.5	6174.8
47.5°	4677.4	4590.4	4347.4	4324.8	4353.1	4429.9	4886.5	5309.1	5286.5	6077.6	6639.2
50°	5121.5	5056.0	4785.9	4828.9	4974.6	5100.1	5843.7	6117.1	5787.2	6529.6	6977.1
52.5°	5645.9	5525.0	5274.1	5390.5	5614.3	5823.3	6859.6	6824.6	6138.6	6869.8	7229.2
55°	6100.2	6014.3	5928.4	6049.3	6383.8	6644.9	7777.2	7354.6	6394.0	7143.3	7339.9
57.5°	6868.7	6848.3	6760.2	6883.3	7289.0	7560.3	8598.8	7765.9	6557.9	7285.7	7209.9
60°	8005.5	7972.7	7808.9	7966.0	8494.8	8920.9	9356.0	8135.5	6595.2	7230.3	6835.9
62.5°	9372.9	9261.0	9120.9	9352.6	10078.1	10265.7	10069.1	8354.7	6456.2	6789.5	5934.1
65°	10649.9	10534.7	10538.0	11026.2	11816.2	11943.9	10900.8	8321.9	6049.3	5685.5	4376.8
67.5°	11627.4	11608.2	11746.1	12698.8	13731.7	13643.5	11644.4	7831.5	4843.5	3685.2	2325.7
70°	11677.2	11714.5	12110.0	13718.1	14766.8	14626.7	11581.1	6365.8	3019.6	1695.1	916.5
71°	11076.0	11326.8	11873.8	13686.5	14827.8	14645.9	11047.7	5331.7	2215.0	1182.1	661.1
72.5°	9438.5	9570.7	10752.8	12880.7	14345.3	13956.5	9695.0	3737.2	1418.3	723.3	379.7
75°	5198.4	5523.9	7200.9	10105.2	11473.8	11132.5	6318.3	1775.4	707.4	395.5	157.1
77.5°	2474.9	2411.6	3513.4	6009.8	7779.5	7761.4	3183.4	788.8	412.5	267.8	79.1
80°	707.4	795.6	1344.8	2856.9	4319.2	4366.6	1222.8	380.8	285.9	209.1	40.7
82.5°	213.6	218.1	493.8	1263.4	2148.3	2025.1	458.8	194.4	205.7	166.1	23.7
85°	37.3	46.3	145.8	445.3	819.3	621.5	115.3	92.7	135.6	109.6	13.6
87.5°	2.3	3.4	48.6	50.9	72.3	41.8	20.3	13.6	29.4	29.4	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°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2375.4	2382.2	2377.7	2367.5	2350.6	2330.2	2303.1	2280.5	2261.3	2251.1	2263.6
5°	2390.1	2399.2	2376.6	2325.7	2248.9	2165.2	2070.3	1996.9	1939.2	1921.1	1914.4
7.5°	2412.7	2418.4	2357.4	2244.3	2081.6	1883.9	1710.9	1565.2	1452.2	1418.3	1368.5
10°	2442.1	2438.7	2323.5	2113.3	1827.3	1530.1	1262.3	1063.4	913.1	858.9	854.3
12.5°	2487.3	2469.2	2280.5	1934.7	1524.5	1135.7	804.6	629.5	534.5	502.9	496.1
15°	2543.8	2500.9	2212.7	1725.6	1167.4	733.4	496.1	443.0	430.6	428.3	426.0
17.5°	2610.5	2542.7	2123.4	1469.1	820.4	475.8	414.7	413.6	414.7	412.5	411.4
20°	2700.9	2586.8	2017.2	1165.1	542.4	401.2	395.5	395.5	396.7	395.5	395.5
22.5°	2797.0	2638.7	1886.1	889.4	409.1	380.8	379.7	382.0	384.2	383.1	383.1
25°	2915.6	2706.6	1713.2	609.1	366.1	363.9	365.0	369.5	374.1	375.2	374.1
27.5°	3087.4	2790.2	1527.9	419.3	335.6	337.9	349.2	360.5	367.3	368.4	368.4
30°	3280.6	2882.8	1286.0	340.2	310.8	310.8	324.3	345.8	360.5	362.8	363.9
32.5°	3529.3	2990.2	1018.2	306.3	287.0	284.8	297.2	323.2	350.3	358.2	358.2
35°	3836.6	3116.8	757.2	284.8	270.1	264.4	271.2	292.7	327.7	350.3	352.6
37.5°	4197.1	3236.6	553.7	265.6	254.3	246.4	250.9	267.8	296.1	330.0	339.0
40°	4530.5	3342.8	413.6	249.7	238.4	232.8	236.2	244.1	267.8	299.5	305.1
42.5°	4894.4	3425.3	328.9	232.8	222.6	220.4	220.4	223.8	239.6	257.7	258.8
45°	5257.2	3454.7	275.7	212.5	205.7	207.9	206.8	204.5	211.3	209.1	209.1
47.5°	5515.9	3419.6	228.3	193.2	193.2	196.6	191.0	183.1	179.7	166.1	167.3
50°	5693.4	3291.9	187.6	170.6	179.7	184.2	172.9	160.5	148.0	133.4	130.0
52.5°	5766.8	3064.8	153.7	141.3	159.3	165.0	151.4	136.7	117.5	105.1	101.7
55°	5719.4	2784.5	127.7	115.3	134.5	141.3	127.7	110.7	89.3	75.7	73.5
57.5°	5510.3	2450.0	108.5	91.5	107.4	111.9	102.8	84.8	63.3	49.7	49.7
60°	5148.7	2104.2	88.1	72.3	80.2	87.0	78.0	61.0	42.9	30.5	28.3
62.5°	4415.2	1708.7	71.2	56.5	56.5	62.2	54.2	44.1	27.1	15.8	14.7
65°	3188.0	1171.9	56.5	41.8	40.7	40.7	33.9	29.4	15.8	6.8	4.5
67.5°	1732.4	661.1	45.2	31.6	28.3	27.1	21.5	17.0	6.8	1.1	0.0
70°	681.4	254.3	35.0	21.5	18.1	17.0	11.3	7.9	4.5	0.0	0.0
71°	462.2	175.2	30.5	18.1	14.7	12.4	9.0	6.8	3.4	0.0	0.0
72.5°	264.4	108.5	23.7	13.6	11.3	9.0	6.8	4.5	3.4	0.0	0.0
75°	115.3	55.4	14.7	10.2	7.9	5.7	4.5	3.4	1.1	0.0	0.0
77.5°	58.8	30.5	10.2	7.9	4.5	3.4	2.3	1.1	0.0	0.0	0.0
80°	32.8	15.8	6.8	4.5	3.4	2.3	1.1	1.1	0.0	0.0	0.0
82.5°	18.1	9.0	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)