

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: P452114

Luminaire Tested: **GALN-SA3A-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11230 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

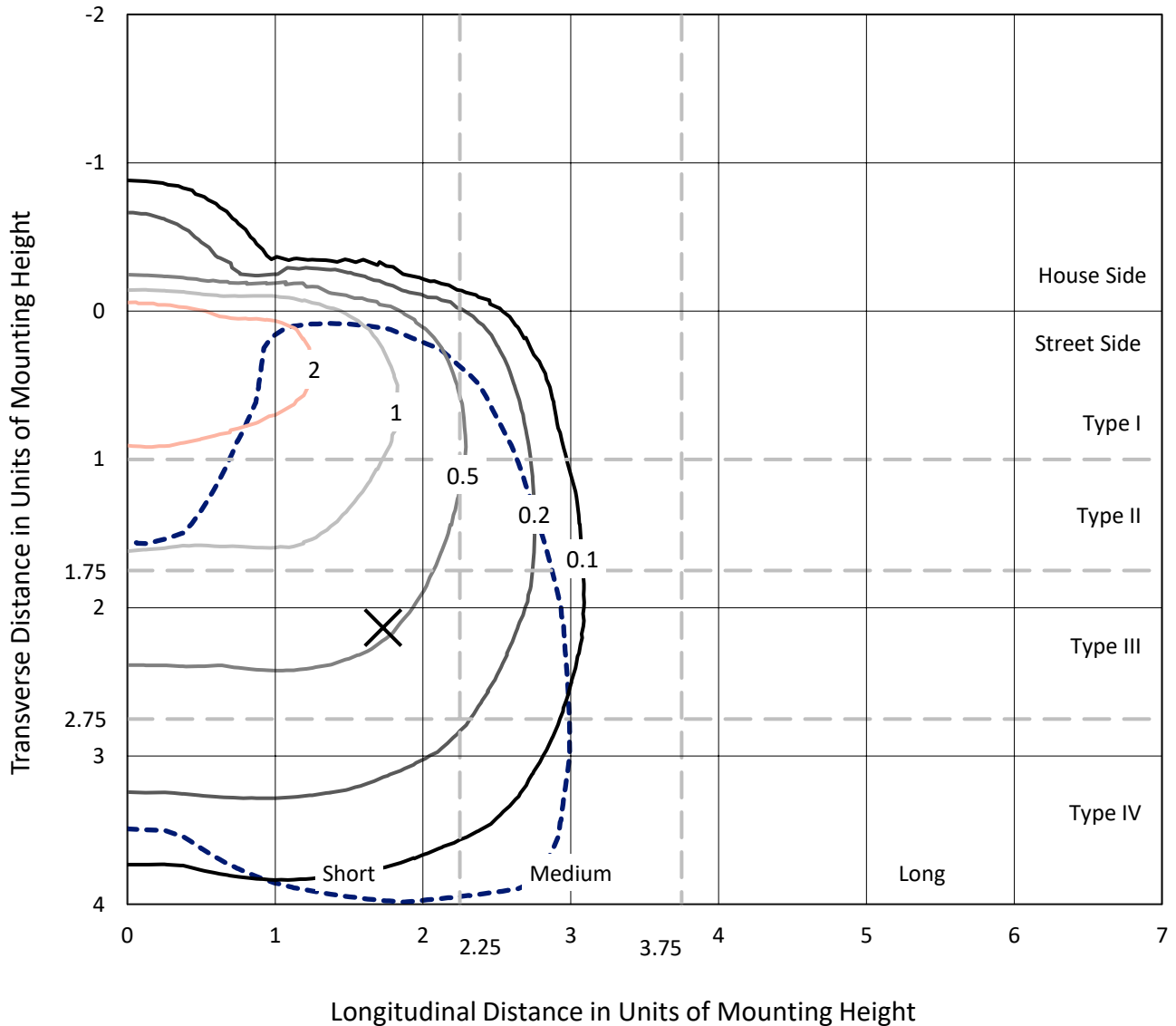
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

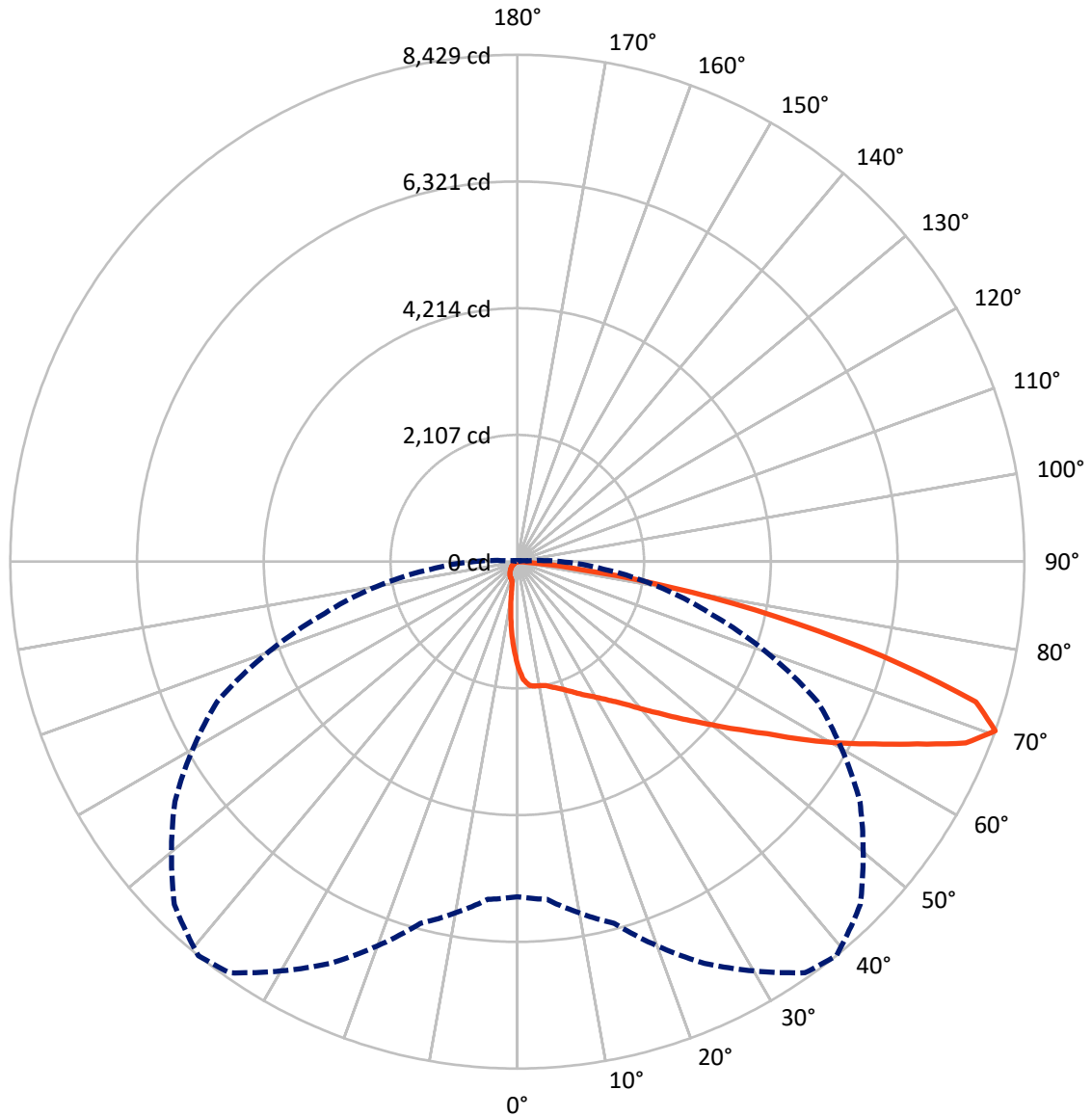
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	732.3	0.0	732.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10497.8	0.0	10497.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	11230.0	0.0	11230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.3
10°-20°	388.4	3.5
20°-30°	650.7	5.8
30°-40°	1009.1	9.0
40°-50°	1599.1	14.2
50°-60°	2344.1	20.9
60°-70°	3004.5	26.8
70°-80°	1888.0	16.8
80°-90°	196.7	1.8
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°	11230.0	100.0
0°-180°	11230.0	100.0

Coefficient of Utilization



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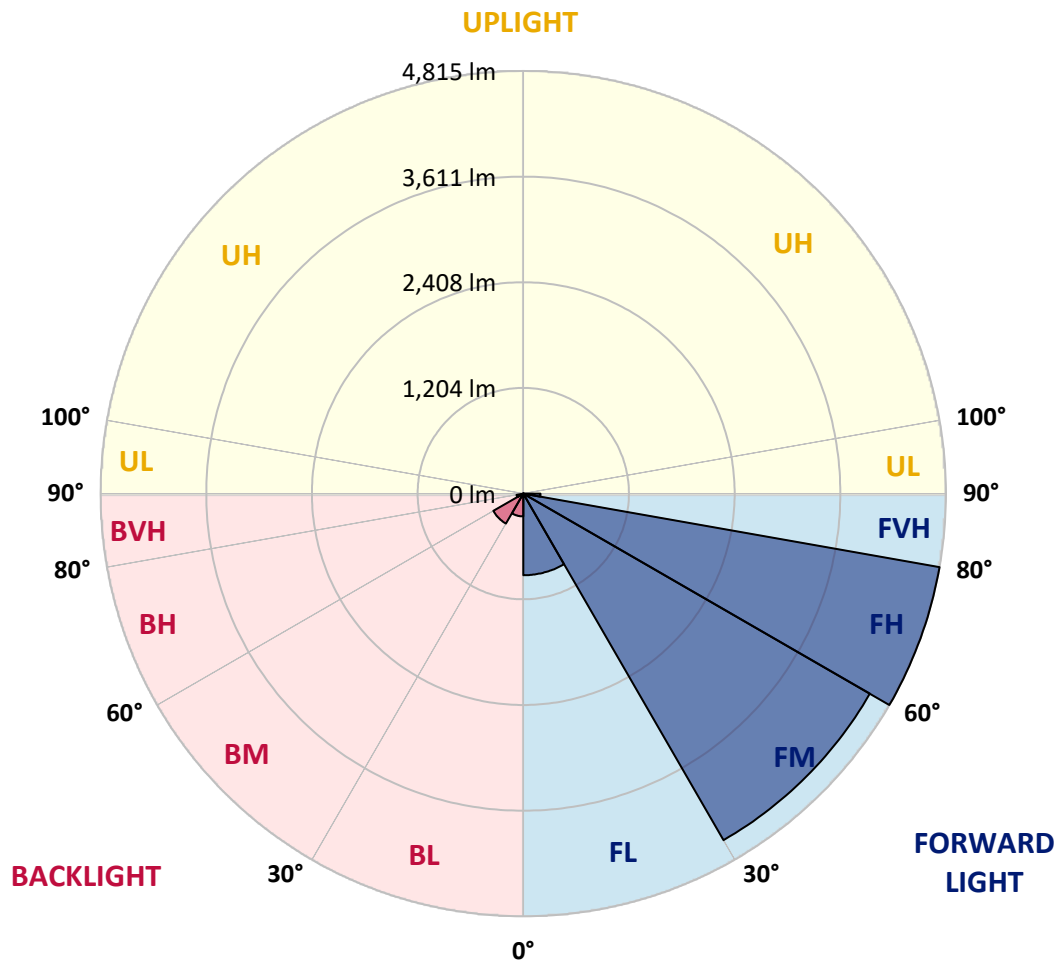
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.2	8.3			
FM (30°-60°)	4558.2	40.6			
FH (60°-80°)	4815.1	42.9			G2/5000
FVH (80°-90°)	195.2	1.7			G2/225
BL (0°-30°)	259.3	2.3	B1/500		
BM (30°-60°)	394.1	3.5	B1/1000		
BH (60°-80°)	77.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	2024.7	2017.9	2008.8	1998.3	1968.1	1962.8	1944.7	1906.2	1860.2	1822.4	1770.4
5°	2120.5	2124.3	2117.5	2098.6	2076.8	2063.9	2041.3	1981.7	1922.1	1845.8	1760.6
7.5°	2142.4	2150.0	2141.7	2123.5	2102.4	2088.8	2070.7	2019.4	1950.0	1863.2	1746.2
10°	2140.1	2149.2	2143.9	2127.3	2110.0	2097.1	2077.5	2036.8	1980.9	1889.6	1750.8
12.5°	2136.4	2148.4	2147.7	2139.4	2125.1	2115.2	2103.2	2066.9	2014.9	1928.1	1775.7
15°	2125.8	2140.9	2154.5	2161.3	2162.0	2162.0	2146.9	2108.5	2058.6	1978.7	1808.1
17.5°	2130.3	2147.7	2181.7	2201.3	2214.9	2213.3	2197.5	2156.0	2100.9	2030.7	1842.1
20°	2158.3	2181.7	2229.2	2268.4	2282.0	2277.5	2256.4	2208.1	2145.4	2075.2	1875.3
22.5°	2226.9	2248.1	2307.7	2353.7	2363.5	2351.4	2321.3	2255.6	2199.0	2123.5	1915.3
25°	2329.6	2354.5	2409.6	2444.3	2444.3	2437.5	2395.2	2318.2	2259.4	2190.7	1967.3
27.5°	2454.1	2475.2	2529.5	2560.5	2542.4	2522.7	2480.5	2387.7	2331.1	2275.2	2030.0
30°	2580.1	2593.7	2651.0	2664.6	2645.8	2620.9	2575.6	2482.8	2432.9	2389.9	2120.5
32.5°	2699.3	2728.8	2776.3	2773.3	2747.6	2735.6	2694.1	2595.2	2567.3	2562.7	2247.3
35°	2818.6	2841.2	2883.5	2894.0	2871.4	2869.1	2838.9	2765.7	2766.5	2795.9	2445.0
37.5°	2921.2	2941.6	2991.4	3014.8	3019.3	3030.6	3018.5	2970.2	3038.9	3119.7	2706.9
40°	3007.2	3035.9	3099.3	3140.0	3186.8	3228.3	3230.6	3241.2	3379.3	3518.1	3048.7
42.5°	3074.4	3114.4	3206.4	3281.9	3389.1	3441.9	3484.2	3542.3	3774.7	3982.2	3451.7
45°	3161.9	3208.0	3322.7	3441.1	3608.7	3695.5	3754.3	3909.8	4239.5	4522.5	3865.2
47.5°	3306.8	3331.0	3447.9	3620.7	3841.1	3964.9	4079.6	4315.0	4738.4	4991.9	4209.4
50°	3493.2	3509.1	3597.4	3837.3	4122.6	4285.6	4494.6	4771.6	5256.0	5381.3	4404.1
52.5°	3699.2	3704.5	3770.9	4075.8	4438.0	4643.3	4877.2	5219.1	5677.9	5659.0	4533.1
55°	3938.4	3930.9	3987.5	4334.6	4811.6	5046.3	5318.7	5677.1	6043.9	5856.0	4607.1
57.5°	4212.4	4192.0	4247.1	4678.0	5290.0	5570.7	5847.7	6072.6	6327.6	6021.2	4642.5
60°	4499.1	4458.4	4524.0	5063.6	5853.7	6120.1	6350.3	6410.6	6626.5	6152.5	4581.4
62.5°	4727.8	4728.6	4850.8	5474.1	6433.3	6666.5	6788.7	6843.0	6883.8	6123.9	4259.9
65°	5084.7	5096.8	5292.3	6043.9	7104.1	7306.4	7390.2	7213.6	6895.1	5767.7	3777.0
67.5°	5453.0	5491.5	5849.2	6828.7	7879.2	8042.2	7934.2	7285.3	6587.2	4954.9	2863.8
70°	5573.0	5636.4	6225.7	7369.0	8344.0	8428.5	8063.3	6951.0	5506.6	3312.9	1441.4
72.5°	5106.6	5209.3	6009.2	7172.1	8047.4	7974.2	7214.3	5829.6	3500.8	1258.0	440.0
75°	3601.1	3646.4	4994.2	5949.6	6472.5	6265.0	5487.7	3758.1	1439.8	353.2	150.9
77.5°	1859.4	1837.5	2970.2	3947.5	4616.1	4401.0	3593.6	1945.5	545.6	147.2	93.6
80°	961.4	977.3	1285.1	2068.5	2817.8	2592.9	1916.0	901.8	290.5	81.5	71.7
82.5°	538.8	505.6	738.8	903.3	1317.6	1033.1	735.0	638.4	126.8	49.1	67.9
85°	98.1	102.6	405.2	488.2	457.3	290.5	237.0	426.4	37.0	27.2	47.5
87.5°	1.5	1.5	78.5	140.4	89.0	40.8	74.7	61.1	7.5	10.6	8.3
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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1744.0	1715.3	1661.7	1608.9	1541.7	1486.6	1449.7	1411.2	1371.9	1374.9	1384.0
5°	1713.8	1664.0	1558.3	1446.6	1339.5	1242.9	1147.8	1062.5	1027.8	996.1	997.6
7.5°	1683.6	1613.4	1458.7	1283.6	1121.4	956.9	837.6	739.5	687.5	648.2	636.9
10°	1670.0	1577.2	1367.4	1126.7	896.5	716.9	563.7	483.7	421.8	402.2	407.5
12.5°	1676.0	1559.1	1285.1	984.8	710.9	499.6	392.4	351.7	338.1	335.8	334.3
15°	1687.4	1546.2	1204.4	827.8	522.2	371.3	329.8	322.2	320.7	319.2	320.0
17.5°	1702.5	1534.9	1118.4	680.7	400.7	324.5	312.4	308.6	307.9	307.9	307.9
20°	1717.6	1522.1	1022.5	549.4	334.3	306.4	298.8	296.6	295.8	295.8	295.1
22.5°	1734.9	1510.8	925.2	431.7	307.9	293.6	286.8	285.3	284.5	283.7	283.7
25°	1759.8	1496.4	821.8	353.2	291.3	281.5	274.7	273.2	272.4	269.4	270.2
27.5°	1793.0	1485.9	715.4	304.9	276.2	266.4	261.9	259.6	258.1	255.8	256.6
30°	1838.3	1476.8	602.2	278.5	258.8	250.5	246.0	244.5	243.0	240.7	240.7
32.5°	1916.8	1480.6	483.0	257.3	243.0	233.2	228.7	227.1	225.6	223.4	223.4
35°	2034.5	1502.5	386.4	239.2	224.1	214.3	209.8	209.8	207.5	204.5	203.8
37.5°	2226.9	1558.3	310.2	221.9	206.0	197.0	191.7	190.2	187.9	183.4	182.6
40°	2454.1	1645.1	261.1	204.5	189.4	180.4	175.8	171.3	165.3	160.7	160.0
42.5°	2739.3	1734.2	226.4	187.1	173.6	165.3	160.0	152.4	143.4	137.3	136.6
45°	3036.7	1815.7	203.0	171.3	158.5	151.7	145.6	133.6	122.3	114.7	114.0
47.5°	3258.5	1830.7	184.1	156.2	145.6	138.9	130.6	115.5	100.4	93.6	91.3
50°	3363.4	1757.5	164.5	141.1	132.8	125.3	114.7	97.3	80.7	72.4	70.9
52.5°	3400.4	1630.8	148.7	127.5	120.0	110.9	98.1	78.5	63.4	55.1	54.3
55°	3385.3	1470.8	134.3	114.7	104.9	94.3	81.5	62.6	46.8	40.0	38.5
57.5°	3306.1	1267.0	120.0	101.9	89.8	79.2	64.9	46.8	31.7	25.7	24.9
60°	3092.5	989.3	105.6	87.5	76.2	64.9	51.3	33.2	19.6	14.3	14.3
62.5°	2731.8	734.3	92.1	73.2	64.1	52.1	36.2	21.1	10.6	7.5	6.8
65°	2282.8	541.8	77.0	61.9	53.6	40.8	25.7	12.8	5.3	2.3	1.5
67.5°	1593.0	334.3	64.1	50.6	43.8	29.4	15.8	5.3	2.3	0.0	0.0
70°	723.7	159.2	49.1	38.5	33.2	21.1	8.3	3.0	1.5	0.0	0.0
72.5°	224.9	83.8	34.7	27.9	22.6	13.6	4.5	2.3	1.5	0.0	0.0
75°	104.1	53.6	21.9	15.1	12.8	6.8	3.0	1.5	0.8	0.0	0.0
77.5°	77.7	41.5	12.8	8.3	6.8	4.5	2.3	1.5	0.8	0.0	0.0
80°	67.9	21.1	7.5	5.3	3.8	3.0	1.5	0.8	0.0	0.0	0.0
82.5°	61.1	10.6	4.5	3.0	2.3	1.5	0.8	0.8	0.0	0.0	0.0
85°	33.2	6.0	3.0	2.3	1.5	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	2.3	1.5	1.5	0.8	0.8	0.8	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)