

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: P651319

Luminaire Tested: **GALN-SA3D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651319
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-SA3D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 13985 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

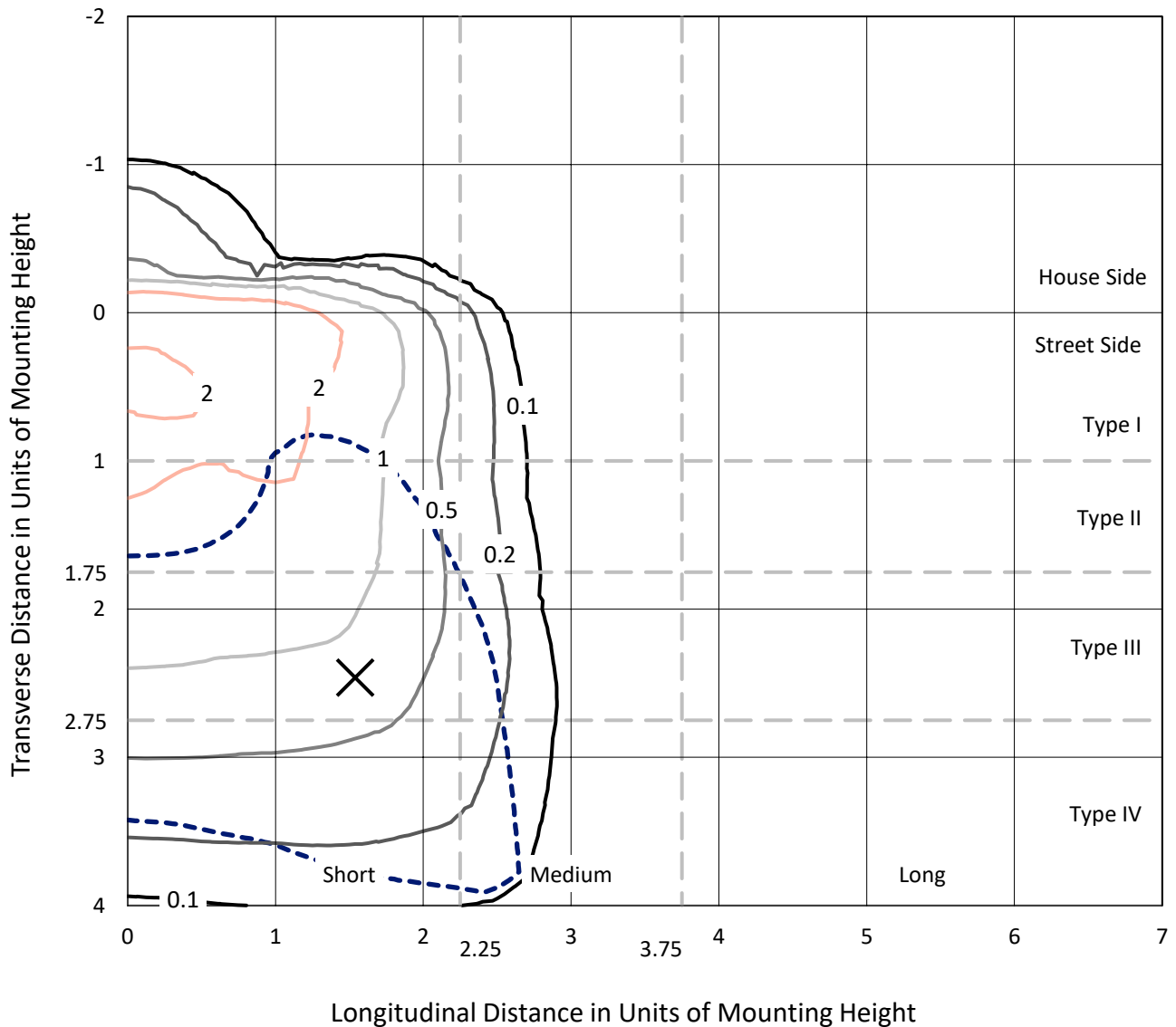
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

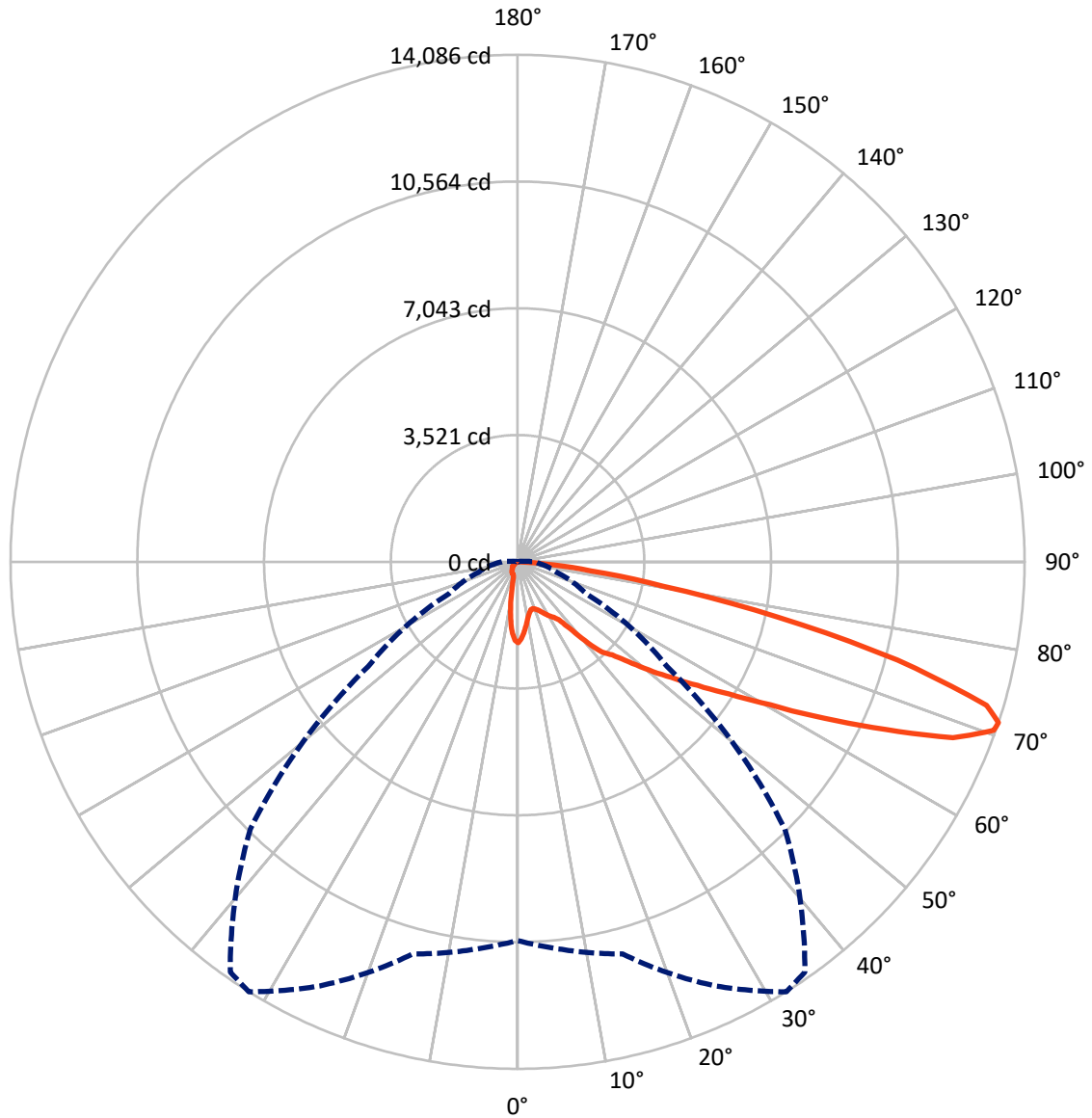
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1171.4	0.0	1171.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12813.6	0.0	12813.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	13985.0	0.0	13985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.3
10°-20°	396.9	2.8
20°-30°	617.4	4.4
30°-40°	1028.7	7.4
40°-50°	1913.5	13.7
50°-60°	3072.2	22.0
60°-70°	4132.2	29.5
70°-80°	2451.7	17.5
80°-90°	189.5	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°	13985.0	100.0
0°-180°	13985.0	100.0



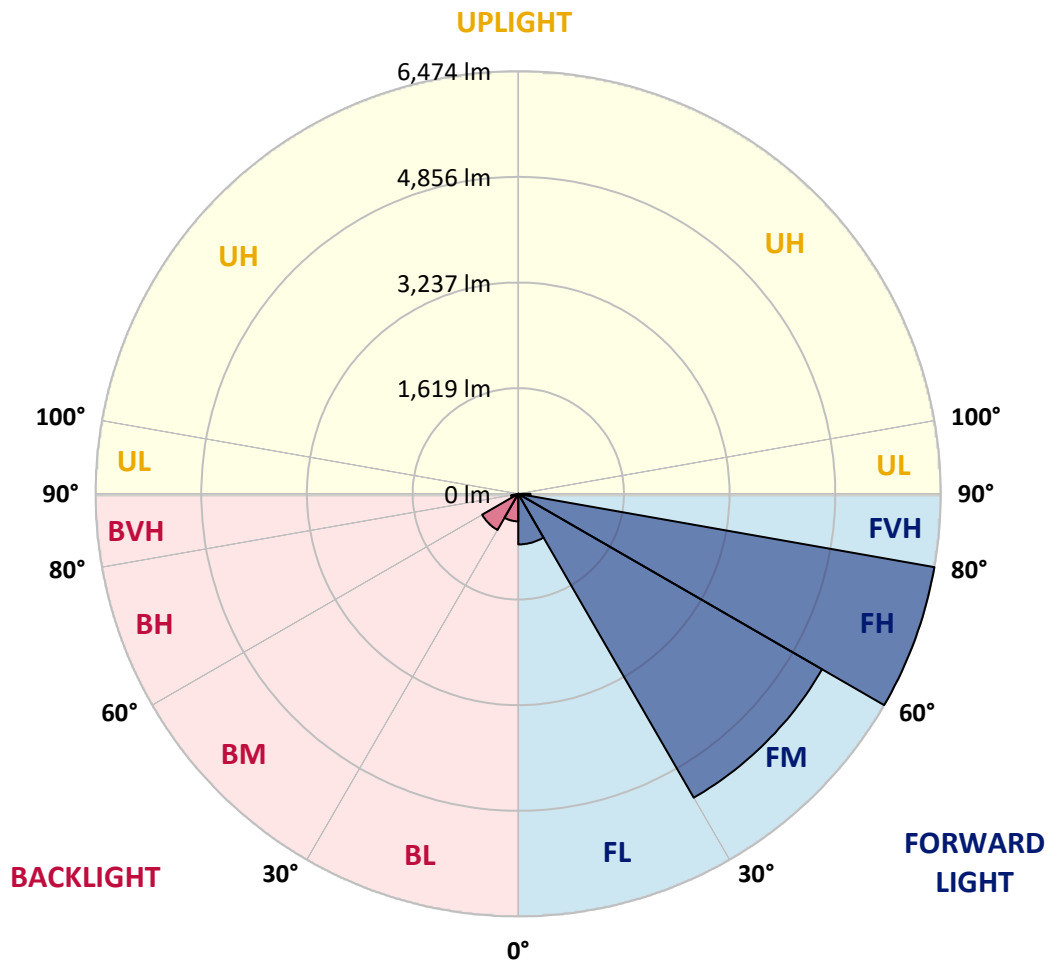
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.1	5.5			
FM (30°-60°)	5375.3	38.4			
FH (60°-80°)	6474.4	46.3			G3/7500
FVH (80°-90°)	188.8	1.3			G2/225
BL (0°-30°)	422.1	3.0	B1/500		
BM (30°-60°)	639.0	4.6	B1/1000		
BH (60°-80°)	109.6	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	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°	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0
2.5°	2085.8	2107.3	2104.1	2111.6	2129.8	2137.4	2157.8	2180.3	2211.4	2232.9	2246.9
5°	1867.9	1884.0	1886.2	1923.7	1942.0	1962.4	2022.5	2088.0	2160.9	2219.0	2257.6
7.5°	1635.0	1643.6	1660.7	1710.1	1756.3	1776.7	1867.9	1981.7	2096.5	2205.0	2274.7
10°	1442.8	1452.5	1483.6	1536.2	1579.1	1606.0	1732.6	1875.4	2036.5	2197.4	2299.5
12.5°	1333.3	1338.7	1350.5	1397.7	1452.5	1481.4	1617.7	1781.0	1988.1	2200.7	2341.3
15°	1325.8	1323.6	1309.7	1329.0	1378.4	1408.4	1541.6	1716.6	1945.2	2211.4	2390.7
17.5°	1365.5	1360.1	1326.8	1326.8	1367.6	1392.4	1509.3	1682.2	1923.7	2236.1	2460.5
20°	1426.7	1418.1	1363.3	1359.1	1398.8	1424.6	1528.7	1684.4	1928.0	2282.3	2553.9
22.5°	1504.0	1494.3	1411.7	1413.8	1456.8	1482.5	1584.5	1723.0	1954.9	2339.2	2653.7
25°	1604.9	1594.2	1496.5	1492.2	1537.3	1559.8	1667.2	1791.7	1992.4	2410.1	2784.7
27.5°	1739.1	1716.6	1599.5	1593.1	1641.4	1670.4	1767.0	1884.0	2059.0	2507.7	2960.7
30°	1849.7	1825.0	1713.3	1696.1	1747.7	1770.2	1870.0	2008.6	2190.0	2678.4	3204.5
32.5°	1994.6	1958.1	1827.2	1782.0	1836.7	1865.8	2019.2	2240.4	2384.2	2858.7	3494.3
35°	2320.9	2298.4	2138.4	1980.6	1977.4	2013.9	2239.3	2474.5	2584.0	3140.0	3889.3
37.5°	2787.9	2771.8	2602.2	2390.7	2329.5	2312.3	2506.7	2732.1	2902.8	3526.5	4348.8
40°	3330.0	3292.4	3136.8	2957.5	2878.1	2827.6	2822.2	3115.3	3319.3	4051.4	4827.6
42.5°	3718.6	3649.9	3461.0	3448.1	3430.9	3378.3	3225.9	3675.7	3857.2	4616.1	5339.7
45°	4126.5	4022.4	3741.2	3692.9	3686.4	3683.2	3835.6	4339.1	4443.3	5228.0	5865.6
47.5°	4443.3	4360.6	4129.8	4108.3	4135.2	4208.2	4641.9	5043.4	5021.9	5773.4	6306.9
50°	4865.2	4802.9	4546.3	4587.2	4725.6	4844.7	5551.1	5810.9	5497.4	6202.7	6627.8
52.5°	5363.2	5248.4	5010.1	5120.7	5333.2	5531.8	6516.2	6482.9	5831.3	6525.9	6867.3
55°	5794.8	5713.2	5631.7	5746.5	6064.3	6312.2	7387.9	6986.4	6074.0	6785.7	6972.5
57.5°	6524.8	6505.5	6421.7	6538.8	6924.1	7181.8	8168.4	7377.2	6229.6	6920.9	6849.0
60°	7604.7	7573.6	7418.0	7567.1	8069.6	8474.3	8887.6	7728.2	6265.0	6868.3	6493.7
62.5°	8903.7	8797.4	8664.3	8884.4	9573.6	9751.7	9564.9	7936.4	6133.0	6449.6	5637.0
65°	10116.7	10007.2	10010.5	10474.2	11224.7	11345.9	10355.1	7905.3	5746.5	5400.8	4157.7
67.5°	11045.4	11027.1	11158.1	12063.1	13044.2	12960.5	11061.4	7439.4	4601.0	3500.7	2209.3
70°	11092.6	11128.0	11503.7	13031.4	14027.5	13894.4	11001.4	6047.1	2868.4	1610.3	870.6
71°	10521.5	10759.8	11279.4	13001.3	14085.6	13912.7	10494.7	5064.8	2104.1	1122.9	628.0
72.5°	8966.0	9091.5	10214.4	12235.9	13627.1	13257.9	9209.6	3550.1	1347.3	687.0	360.7
75°	4938.2	5247.3	6840.4	9599.3	10899.4	10575.2	6002.0	1686.5	672.0	375.8	149.2
77.5°	2351.0	2290.9	3337.5	5709.0	7390.0	7372.9	3024.1	749.3	391.8	254.4	75.2
80°	672.0	755.7	1277.5	2713.8	4103.0	4148.1	1161.5	361.8	271.6	198.6	38.7
82.5°	202.9	207.2	469.1	1200.2	2040.8	1923.7	435.8	184.7	195.4	157.8	22.5
85°	35.4	44.0	138.5	422.9	778.3	590.5	109.5	88.1	128.8	104.1	12.9
87.5°	2.2	3.2	46.2	48.3	68.7	39.7	19.3	12.9	27.9	27.9	7.5
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°	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0
2.5°	2256.5	2263.0	2258.7	2249.0	2232.9	2213.6	2187.8	2166.3	2148.1	2138.4	2150.3
5°	2270.4	2279.0	2257.6	2209.3	2136.3	2056.8	1966.7	1896.9	1842.1	1825.0	1818.5
7.5°	2292.0	2297.3	2239.3	2132.0	1977.4	1789.6	1625.3	1486.8	1379.5	1347.3	1300.0
10°	2319.8	2316.6	2207.1	2007.5	1735.9	1453.5	1199.1	1010.2	867.4	815.9	811.6
12.5°	2362.8	2345.6	2166.3	1837.8	1448.2	1078.9	764.3	598.0	507.8	477.7	471.3
15°	2416.4	2375.7	2101.9	1639.3	1108.9	696.7	471.3	420.8	409.0	406.9	404.7
17.5°	2479.8	2415.4	2017.1	1395.6	779.4	452.0	394.0	392.9	394.0	391.8	390.7
20°	2565.7	2457.2	1916.2	1106.8	515.3	381.1	375.8	375.8	376.8	375.8	375.8
22.5°	2657.0	2506.7	1791.7	844.9	388.6	361.8	360.7	362.8	365.0	363.9	363.9
25°	2769.7	2571.0	1627.4	578.6	347.8	345.7	346.7	351.0	355.3	356.4	355.3
27.5°	2932.8	2650.5	1451.4	398.3	318.8	321.0	331.7	342.5	348.9	349.9	349.9
30°	3116.4	2738.5	1221.6	323.1	295.2	295.2	308.1	328.5	342.5	344.6	345.7
32.5°	3352.6	2840.5	967.2	290.9	272.7	270.5	282.3	307.0	332.8	340.3	340.3
35°	3644.6	2960.7	719.2	270.5	256.6	251.2	257.7	278.0	311.3	332.8	335.0
37.5°	3987.0	3074.5	526.0	252.3	241.5	234.1	238.3	254.4	281.2	313.4	322.0
40°	4303.7	3175.4	392.9	237.2	226.5	221.2	224.4	231.9	254.4	284.5	289.8
42.5°	4649.4	3253.8	312.4	221.2	211.5	209.3	209.3	212.5	227.6	244.7	245.8
45°	4993.9	3281.8	262.0	201.8	195.4	197.6	196.5	194.3	200.7	198.6	198.6
47.5°	5239.8	3248.4	216.8	183.6	183.6	186.8	181.4	173.9	170.7	157.8	158.9
50°	5408.4	3127.2	178.2	162.1	170.7	175.0	164.2	152.5	140.6	126.7	123.5
52.5°	5478.1	2911.4	146.0	134.2	151.4	156.8	143.8	129.9	111.7	99.8	96.6
55°	5433.0	2645.1	121.3	109.5	127.7	134.2	121.3	105.2	84.8	71.9	69.8
57.5°	5234.5	2327.4	103.0	87.0	102.0	106.3	97.7	80.5	60.1	47.3	47.3
60°	4890.9	1998.9	83.8	68.7	76.2	82.7	74.1	57.9	40.8	29.0	26.8
62.5°	4194.2	1623.1	67.6	53.7	53.7	59.0	51.6	41.9	25.7	15.1	14.0
65°	3028.4	1113.2	53.7	39.7	38.7	38.7	32.2	27.9	15.1	6.5	4.3
67.5°	1645.7	628.0	43.0	30.0	26.8	25.7	20.4	16.1	6.5	1.1	0.0
70°	647.3	241.5	33.3	20.4	17.2	16.1	10.8	7.5	4.3	0.0	0.0
71°	439.1	166.4	29.0	17.2	14.0	11.8	8.6	6.5	3.2	0.0	0.0
72.5°	251.2	103.0	22.5	12.9	10.8	8.6	6.5	4.3	3.2	0.0	0.0
75°	109.5	52.6	14.0	9.7	7.5	5.4	4.3	3.2	1.1	0.0	0.0
77.5°	55.8	29.0	9.7	7.5	4.3	3.2	2.2	1.1	0.0	0.0	0.0
80°	31.1	15.1	6.5	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	17.2	8.6	3.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	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)