

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: P647964

Luminaire Tested: **GALN-SA5A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647964
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-SA5A-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 12912.5 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

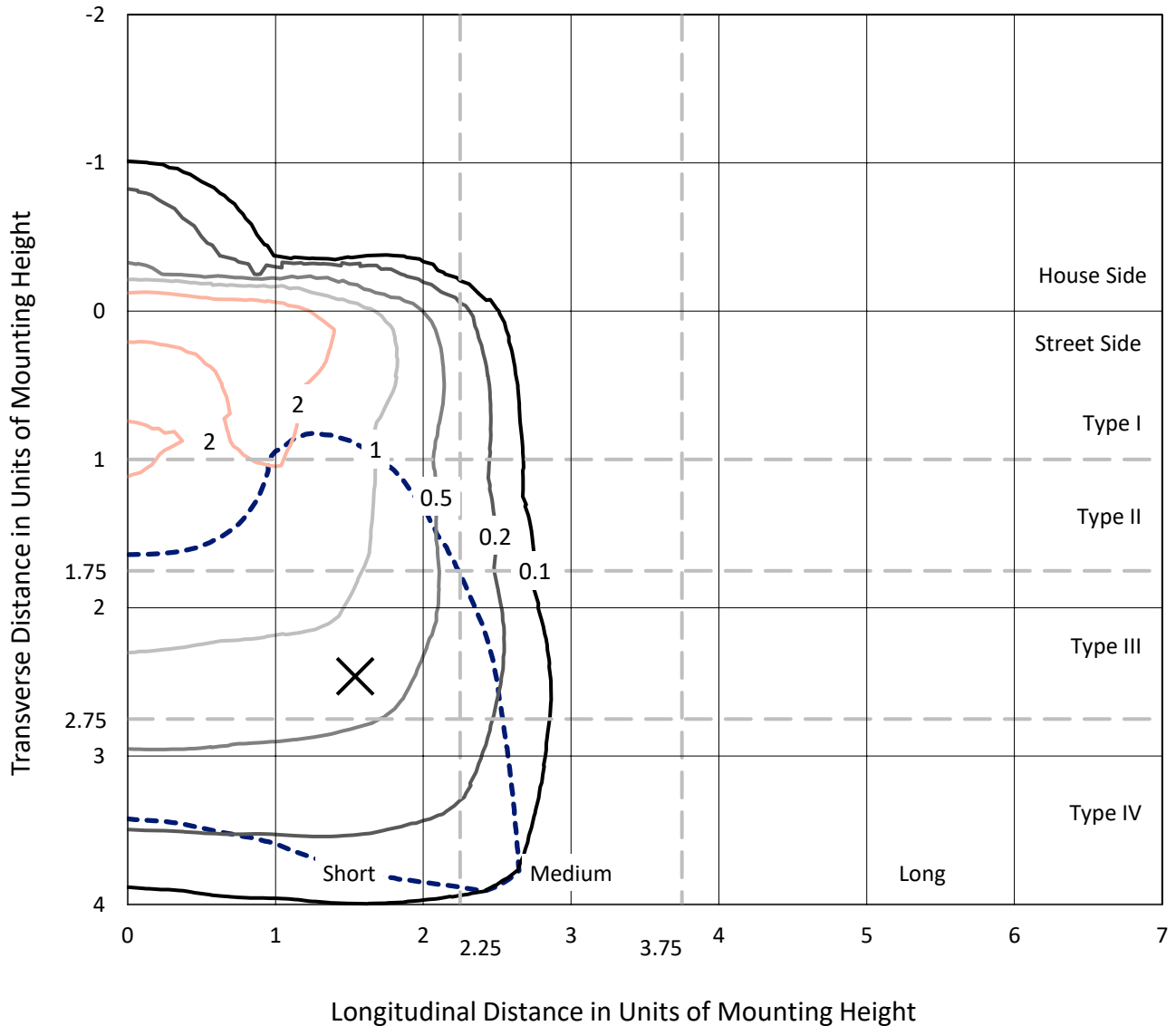
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

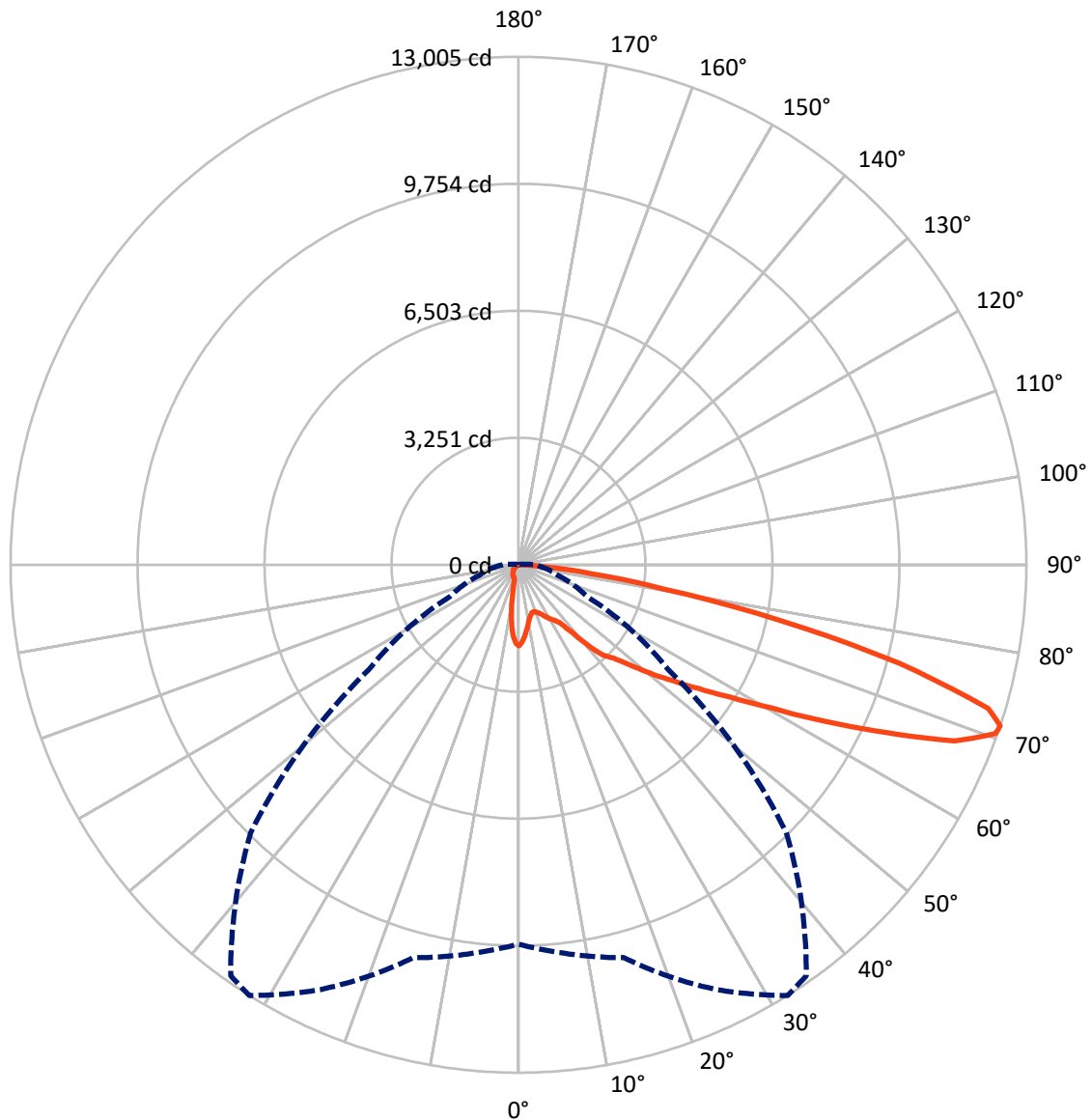
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1081.6	0.0	1081.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11830.9	0.0	11830.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	12912.5	0.0	12912.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.3
10°-20°	366.5	2.8
20°-30°	570.1	4.4
30°-40°	949.8	7.4
40°-50°	1766.7	13.7
50°-60°	2836.6	22.0
60°-70°	3815.3	29.5
70°-80°	2263.7	17.5
80°-90°	175.0	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°	12912.5	100.0
0°-180°	12912.5	100.0

Coefficient of Utilization



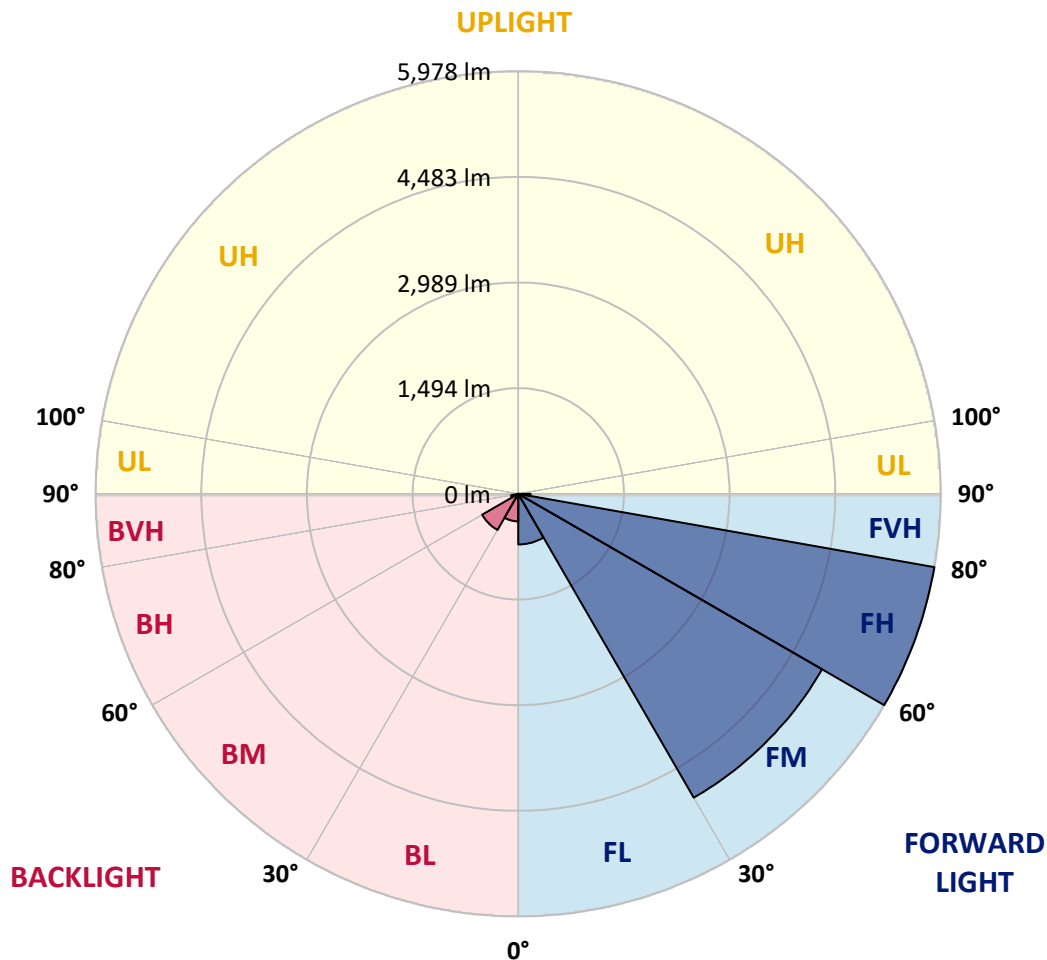
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.7	5.5			
FM (30°-60°)	4963.1	38.4			
FH (60°-80°)	5977.8	46.3			G3/7500
FVH (80°-90°)	174.3	1.3			G2/225
BL (0°-30°)	389.7	3.0	B1/500		
BM (30°-60°)	590.0	4.6	B1/1000		
BH (60°-80°)	101.2	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°	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5
2.5°	1925.9	1945.7	1942.7	1949.7	1966.5	1973.5	1992.3	2013.1	2041.8	2061.6	2074.6
5°	1724.6	1739.5	1741.5	1776.2	1793.1	1811.9	1867.4	1927.8	1995.2	2048.8	2084.4
7.5°	1509.5	1517.5	1533.3	1578.9	1621.6	1640.4	1724.6	1829.7	1935.8	2035.9	2100.3
10°	1332.1	1341.0	1369.8	1418.4	1458.0	1482.8	1599.7	1731.6	1880.3	2028.9	2123.1
12.5°	1231.0	1236.0	1246.9	1290.5	1341.0	1367.8	1493.7	1644.4	1835.7	2031.9	2161.8
15°	1224.1	1222.1	1209.3	1227.1	1272.7	1300.4	1423.3	1584.9	1796.0	2041.8	2207.4
17.5°	1260.8	1255.9	1225.1	1225.1	1262.7	1285.5	1393.6	1553.2	1776.2	2064.6	2271.8
20°	1317.2	1309.3	1258.8	1254.8	1291.5	1315.3	1411.4	1555.2	1780.2	2107.3	2358.0
22.5°	1388.7	1379.7	1303.4	1305.4	1345.0	1368.8	1463.0	1590.8	1805.0	2159.7	2450.2
25°	1481.8	1471.9	1381.7	1377.8	1419.3	1440.2	1539.3	1654.2	1839.7	2225.2	2571.1
27.5°	1605.7	1584.9	1476.9	1470.9	1515.5	1542.3	1631.5	1739.5	1901.1	2315.4	2733.7
30°	1707.8	1685.0	1581.9	1566.1	1613.6	1634.4	1726.7	1854.5	2022.0	2473.0	2958.6
32.5°	1841.6	1807.9	1687.0	1645.4	1695.9	1722.7	1864.4	2068.6	2201.4	2639.5	3226.3
35°	2142.9	2122.1	1974.4	1828.7	1825.7	1859.5	2067.6	2284.6	2385.8	2899.2	3591.1
37.5°	2574.1	2559.2	2402.6	2207.4	2150.9	2135.0	2314.4	2522.6	2680.1	3256.0	4015.3
40°	3074.6	3039.9	2896.2	2730.7	2657.3	2610.8	2605.8	2876.4	3064.7	3740.7	4457.3
42.5°	3433.5	3370.0	3195.6	3183.7	3167.8	3119.2	2978.5	3393.8	3561.3	4262.1	4930.2
45°	3810.1	3713.9	3454.3	3409.7	3403.7	3400.7	3541.5	4006.4	4102.5	4827.0	5415.8
47.5°	4102.5	4026.2	3813.1	3793.2	3818.1	3885.4	4285.8	4656.6	4636.8	5330.6	5823.2
50°	4492.1	4434.5	4197.7	4235.3	4363.2	4473.2	5125.4	5365.3	5075.9	5727.0	6119.5
52.5°	4951.9	4845.9	4625.8	4727.9	4924.2	5107.6	6016.5	5985.7	5384.1	6025.4	6340.6
55°	5350.4	5275.1	5199.7	5305.8	5599.2	5828.2	6821.3	6450.6	5608.1	6265.3	6437.7
57.5°	6024.4	6006.5	5929.3	6037.3	6393.1	6631.0	7541.9	6811.4	5751.8	6390.1	6323.7
60°	7021.6	6992.8	6849.1	6986.9	7450.7	7824.4	8206.0	7135.5	5784.6	6341.6	5995.7
62.5°	8220.9	8122.8	7999.8	8203.0	8839.4	9003.9	8831.5	7327.8	5662.7	5955.0	5204.7
65°	9340.9	9239.8	9242.8	9671.0	10363.8	10475.8	9560.9	7299.0	5305.8	4986.6	3838.8
67.5°	10198.3	10181.4	10302.3	11137.9	12043.9	11966.5	10213.1	6868.9	4248.2	3232.2	2039.9
70°	10241.9	10274.6	10621.5	12032.0	12951.8	12828.8	10157.6	5583.3	2648.4	1486.8	803.8
71°	9714.6	9934.6	10414.4	12004.2	13005.3	12845.7	9689.8	4676.4	1942.7	1036.8	579.8
72.5°	8278.3	8394.3	9431.1	11297.5	12582.0	12241.1	8503.4	3277.9	1244.0	634.4	333.0
75°	4559.4	4844.9	6315.8	8863.2	10063.4	9764.1	5541.7	1557.2	620.4	346.9	137.8
77.5°	2170.7	2115.2	3081.6	5271.1	6823.3	6807.4	2792.2	691.9	361.7	234.9	69.4
80°	620.4	697.8	1179.5	2505.7	3788.3	3829.9	1072.5	334.0	250.8	183.4	35.7
82.5°	187.4	191.3	433.2	1108.1	1884.2	1776.2	402.4	170.5	180.4	145.7	20.8
85°	32.7	40.6	127.9	390.6	718.6	545.1	101.1	81.3	118.9	96.2	11.9
87.5°	2.0	3.0	42.6	44.6	63.4	36.6	17.9	11.9	25.8	25.8	7.0
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°	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5
2.5°	2083.5	2089.4	2085.4	2076.5	2061.6	2043.8	2020.1	2000.2	1983.3	1974.4	1985.3
5°	2096.3	2104.3	2084.4	2039.9	1972.5	1899.1	1815.9	1751.4	1700.8	1685.0	1679.1
7.5°	2116.1	2121.1	2067.6	1968.5	1825.7	1652.3	1500.6	1372.8	1273.7	1244.0	1200.3
10°	2142.0	2139.0	2037.8	1853.5	1602.7	1342.1	1107.2	932.7	800.9	753.3	749.3
12.5°	2181.6	2165.7	2000.2	1696.9	1337.1	996.1	705.7	552.1	468.9	441.1	435.1
15°	2231.2	2193.5	1940.7	1513.5	1023.9	643.3	435.1	388.5	377.6	375.7	373.6
17.5°	2289.6	2230.1	1862.4	1288.5	719.6	417.3	363.8	362.8	363.8	361.7	360.8
20°	2368.9	2268.8	1769.3	1021.9	475.8	351.9	346.9	346.9	347.9	346.9	346.9
22.5°	2453.1	2314.4	1654.2	780.0	358.8	334.0	333.0	335.0	337.0	336.0	336.0
25°	2557.3	2373.9	1502.7	534.2	321.1	319.2	320.2	324.1	328.1	329.1	328.1
27.5°	2707.9	2447.2	1340.1	367.7	294.4	296.4	306.3	316.2	322.1	323.1	323.1
30°	2877.4	2528.5	1128.0	298.3	272.6	272.6	284.5	303.3	316.2	318.1	319.2
32.5°	3095.4	2622.7	893.1	268.6	251.7	249.8	260.7	283.4	307.2	314.2	314.2
35°	3365.0	2733.7	664.1	249.8	236.9	231.9	237.9	256.7	287.4	307.2	309.3
37.5°	3681.3	2838.8	485.7	232.9	223.0	216.1	220.0	234.9	259.7	289.4	297.4
40°	3973.6	2931.9	362.8	219.1	209.1	204.2	207.2	214.1	234.9	262.7	267.6
42.5°	4292.8	3004.3	288.5	204.2	195.3	193.2	193.2	196.2	210.2	226.0	227.0
45°	4611.0	3030.1	241.9	186.4	180.4	182.4	181.4	179.4	185.3	183.4	183.4
47.5°	4837.9	2999.3	200.2	169.5	169.5	172.5	167.5	160.6	157.6	145.7	146.7
50°	4993.6	2887.3	164.5	149.6	157.6	161.5	151.7	140.8	129.8	117.0	114.0
52.5°	5058.0	2688.1	134.8	123.9	139.8	144.7	132.8	120.0	103.1	92.2	89.2
55°	5016.4	2442.3	112.0	101.1	117.9	123.9	112.0	97.2	78.3	66.4	64.4
57.5°	4833.0	2148.9	95.1	80.3	94.2	98.1	90.2	74.3	55.5	43.6	43.6
60°	4515.8	1845.6	77.3	63.4	70.4	76.3	68.4	53.6	37.7	26.8	24.7
62.5°	3872.6	1498.7	62.5	49.6	49.6	54.5	47.6	38.7	23.8	13.9	12.9
65°	2796.1	1027.8	49.6	36.6	35.7	35.7	29.8	25.8	13.9	6.0	4.0
67.5°	1519.5	579.8	39.6	27.7	24.7	23.8	18.9	14.9	6.0	1.0	0.0
70°	597.7	223.0	30.7	18.9	15.9	14.9	9.9	7.0	4.0	0.0	0.0
71°	405.4	153.6	26.8	15.9	12.9	10.9	7.9	6.0	3.0	0.0	0.0
72.5°	231.9	95.1	20.8	11.9	9.9	7.9	6.0	4.0	3.0	0.0	0.0
75°	101.1	48.5	12.9	8.9	7.0	4.9	4.0	3.0	1.0	0.0	0.0
77.5°	51.5	26.8	8.9	7.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	28.7	13.9	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	15.9	7.9	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.0	0.0	0.0	0.0	0.0	1.0	1.0	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)