

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: P454304

Luminaire Tested: **GALN-SA5B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454304
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-SA5B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 15084 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

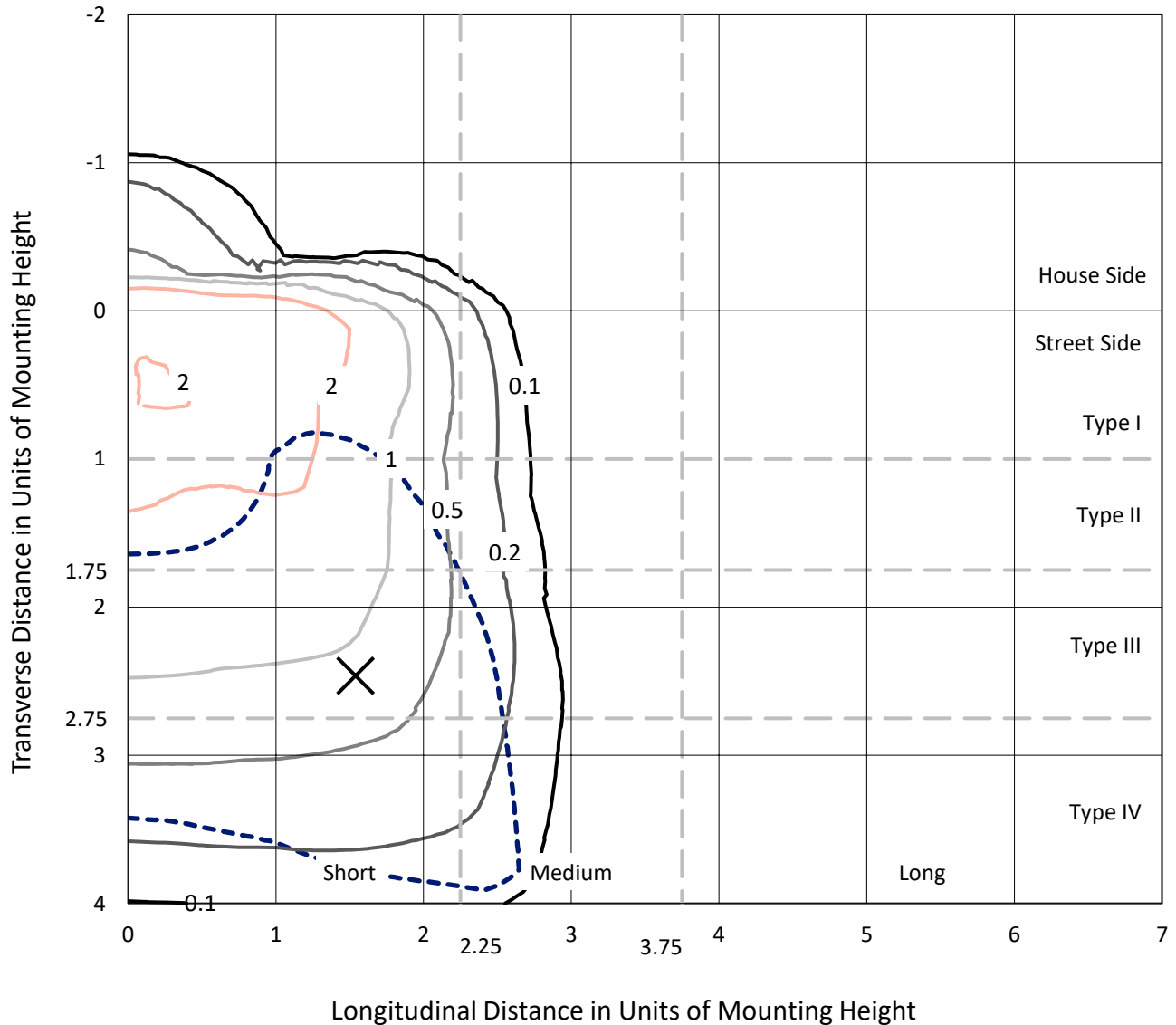
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454304
 CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

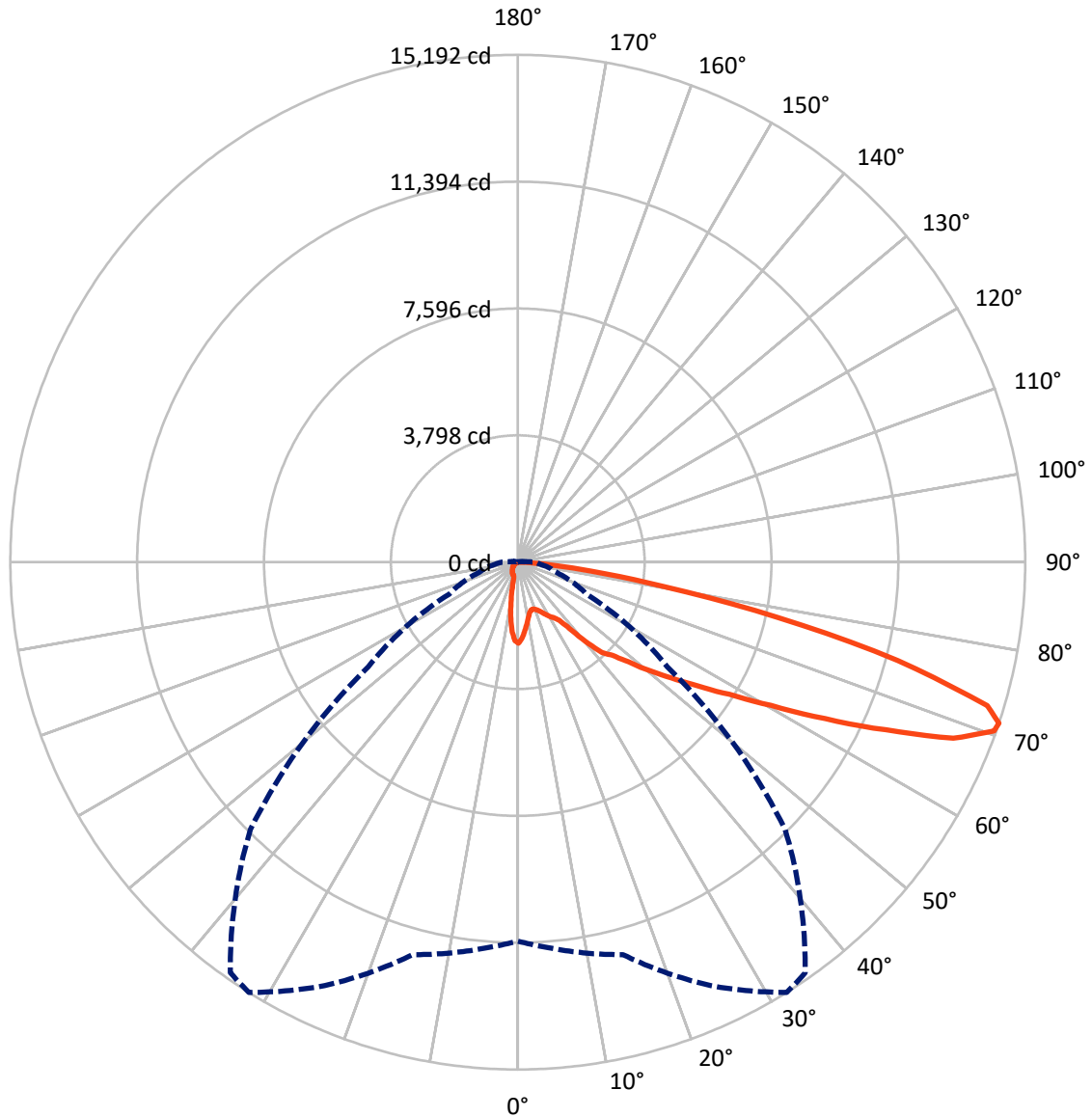
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P454304
CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P454304
 CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.4	0.0	1263.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13820.6	0.0	13820.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	15084.0	0.0	15084.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.3
10°-20°	428.1	2.8
20°-30°	666.0	4.4
30°-40°	1109.5	7.4
40°-50°	2063.9	13.7
50°-60°	3313.6	22.0
60°-70°	4457.0	29.5
70°-80°	2644.4	17.5
80°-90°	204.4	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°	15084.0	100.0
0°-180°	15084.0	100.0



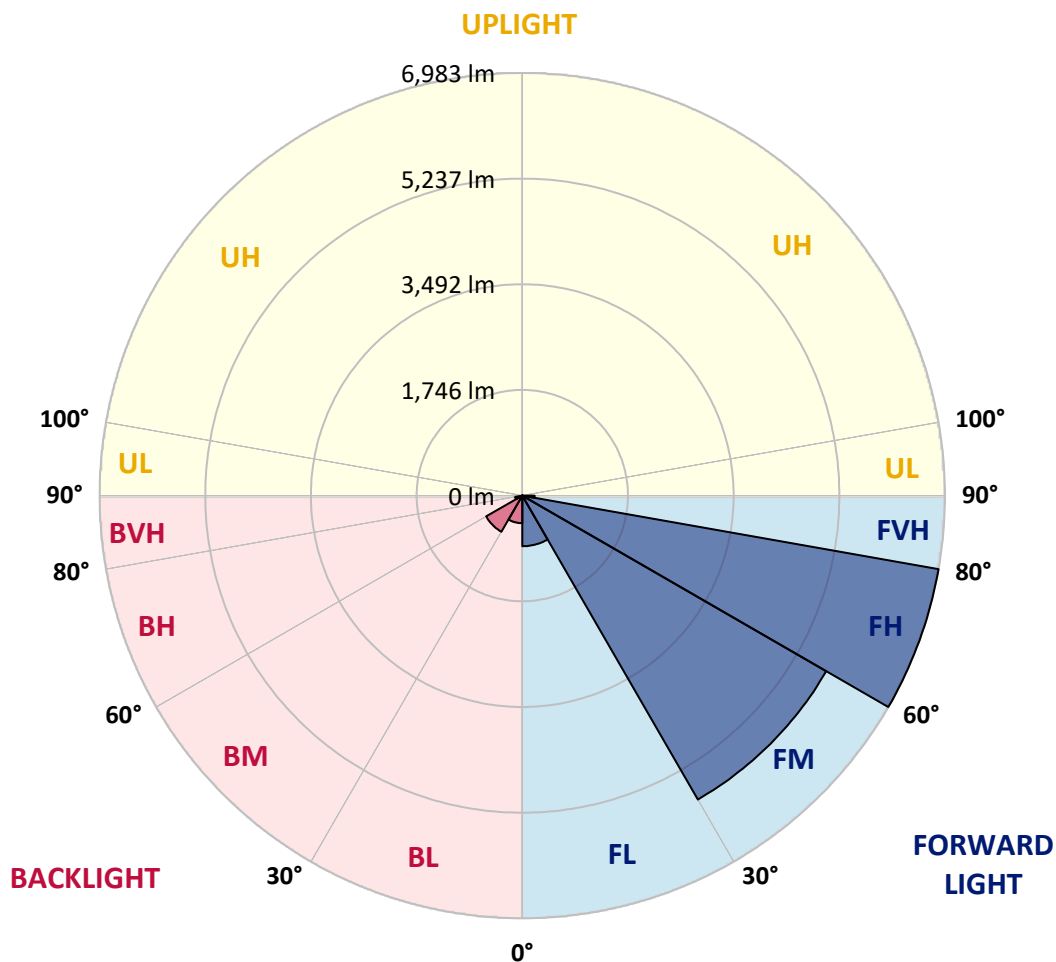
REPORT NUMBER: P454304
 CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.1	5.5			
FM (30°-60°)	5797.7	38.4			
FH (60°-80°)	6983.2	46.3			G3/7500
FVH (80°-90°)	203.6	1.3			G2/225
BL (0°-30°)	455.2	3.0	B1/500		
BM (30°-60°)	689.2	4.6	B1/1000		
BH (60°-80°)	118.2	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





REPORT NUMBER: P454304

CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7
2.5°	2249.7	2272.9	2269.4	2277.5	2297.2	2305.3	2327.3	2351.6	2385.2	2408.4	2423.4
5°	2014.7	2032.1	2034.4	2074.9	2094.6	2116.6	2181.4	2252.1	2330.8	2393.3	2435.0
7.5°	1763.4	1772.7	1791.2	1844.5	1894.3	1916.3	2014.7	2137.4	2261.3	2378.3	2453.5
10°	1556.2	1566.6	1600.2	1656.9	1703.2	1732.2	1868.8	2022.8	2196.5	2370.2	2480.2
12.5°	1438.1	1443.9	1456.6	1507.5	1566.6	1597.9	1744.9	1920.9	2144.4	2373.6	2525.3
15°	1430.0	1427.7	1412.6	1433.4	1486.7	1519.1	1662.7	1851.4	2098.1	2385.2	2578.6
17.5°	1472.8	1467.0	1431.1	1431.1	1475.1	1501.8	1628.0	1814.4	2074.9	2411.8	2653.8
20°	1538.8	1529.5	1470.5	1465.9	1508.7	1536.5	1648.8	1816.7	2079.5	2461.6	2754.6
22.5°	1622.2	1611.8	1522.6	1524.9	1571.2	1599.0	1709.0	1858.4	2108.5	2523.0	2862.3
25°	1731.0	1719.4	1614.1	1609.4	1658.1	1682.4	1798.2	1932.5	2149.0	2599.4	3003.5
27.5°	1875.8	1851.4	1725.2	1718.3	1770.4	1801.6	1905.9	2032.1	2220.8	2704.8	3193.4
30°	1995.0	1968.4	1848.0	1829.4	1885.0	1909.3	2017.0	2166.4	2362.1	2888.9	3456.2
32.5°	2151.3	2112.0	1970.7	1922.1	1981.1	2012.4	2178.0	2416.5	2571.6	3083.4	3768.9
35°	2503.3	2479.0	2306.5	2136.3	2132.8	2172.2	2415.3	2668.9	2787.0	3386.8	4195.0
37.5°	3007.0	2989.6	2806.7	2578.6	2512.6	2494.1	2703.6	2946.8	3130.9	3803.6	4690.5
40°	3591.7	3551.2	3383.3	3189.9	3104.3	3049.8	3044.0	3360.1	3580.1	4369.8	5207.0
42.5°	4010.9	3936.8	3733.0	3719.1	3700.6	3643.8	3479.4	3964.6	4160.2	4978.9	5759.3
45°	4450.9	4338.5	4035.2	3983.1	3976.1	3972.7	4137.1	4680.1	4792.4	5638.8	6326.6
47.5°	4792.4	4703.3	4454.3	4431.2	4460.1	4538.9	5006.6	5439.7	5416.5	6227.0	6802.5
50°	5247.5	5180.3	4903.6	4947.6	5097.0	5225.5	5987.4	6267.6	5929.5	6690.2	7148.7
52.5°	5784.7	5660.8	5403.8	5523.1	5752.3	5966.5	7028.3	6992.4	6289.6	7038.7	7406.9
55°	6250.2	6162.2	6074.2	6198.1	6540.8	6808.3	7968.5	7535.4	6551.2	7318.9	7520.4
57.5°	7037.5	7016.7	6926.4	7052.6	7468.3	7746.2	8810.3	7956.9	6719.1	7464.8	7387.2
60°	8202.4	8168.8	8000.9	8161.8	8703.7	9140.2	9586.0	8335.5	6757.3	7408.1	7004.0
62.5°	9603.4	9488.8	9345.2	9582.6	10325.9	10518.1	10316.6	8560.2	6614.9	6956.5	6080.0
65°	10911.8	10793.7	10797.2	11297.4	12106.7	12237.6	11168.8	8526.6	6198.1	5825.3	4484.4
67.5°	11913.3	11893.7	12034.9	13011.0	14069.3	13979.0	11930.7	8024.1	4962.6	3775.8	2382.9
70°	11964.3	12002.5	12407.8	14055.4	15129.9	14986.3	11865.9	6522.3	3093.8	1736.8	939.0
71°	11348.3	11605.4	12165.8	14023.0	15192.4	15006.0	11319.4	5462.8	2269.4	1211.1	677.4
72.5°	9670.6	9806.0	11017.2	13197.4	14698.0	14299.7	9933.4	3829.1	1453.1	741.0	389.0
75°	5326.2	5659.7	7378.0	10353.7	11755.9	11406.2	6473.7	1819.0	724.8	405.3	160.9
77.5°	2535.7	2470.9	3599.8	6157.6	7970.8	7952.3	3261.7	808.2	422.6	274.4	81.1
80°	724.8	815.1	1377.9	2927.1	4425.4	4474.0	1252.8	390.2	292.9	214.2	41.7
82.5°	218.8	223.5	506.0	1294.5	2201.1	2074.9	470.1	199.2	210.7	170.2	24.3
85°	38.2	47.5	149.4	456.2	839.5	636.8	118.1	94.9	138.9	112.3	13.9
87.5°	2.3	3.5	49.8	52.1	74.1	42.8	20.8	13.9	30.1	30.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454304

CATALOG NUMBER: GALN-SA5B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7
2.5°	2433.8	2440.8	2436.2	2425.7	2408.4	2387.5	2359.7	2336.6	2316.9	2306.5	2319.2
5°	2448.9	2458.2	2435.0	2382.9	2304.2	2218.5	2121.2	2046.0	1986.9	1968.4	1961.4
7.5°	2472.1	2477.8	2415.3	2299.5	2132.8	1930.2	1753.0	1603.7	1487.9	1453.1	1402.2
10°	2502.2	2498.7	2380.6	2165.2	1872.3	1567.8	1293.3	1089.6	935.6	880.0	875.4
12.5°	2548.5	2530.0	2336.6	1982.3	1562.0	1163.7	824.4	644.9	547.7	515.3	508.3
15°	2606.4	2562.4	2267.1	1768.1	1196.1	751.5	508.3	453.9	441.1	438.8	436.5
17.5°	2674.7	2605.2	2175.6	1505.2	840.6	487.5	424.9	423.8	424.9	422.6	421.5
20°	2767.3	2650.4	2066.8	1193.8	555.8	411.0	405.3	405.3	406.4	405.3	405.3
22.5°	2865.7	2703.6	1932.5	911.2	419.1	390.2	389.0	391.4	393.7	392.5	392.5
25°	2987.3	2773.1	1755.3	624.1	375.2	372.8	374.0	378.6	383.3	384.4	383.3
27.5°	3163.3	2858.8	1565.4	429.6	343.9	346.2	357.8	369.4	376.3	377.5	377.5
30°	3361.3	2953.7	1317.7	348.5	318.4	318.4	332.3	354.3	369.4	371.7	372.8
32.5°	3616.0	3063.7	1043.2	313.8	294.1	291.8	304.5	331.2	358.9	367.0	367.0
35°	3931.0	3193.4	775.8	291.8	276.7	270.9	277.9	299.9	335.8	358.9	361.3
37.5°	4300.3	3316.1	567.4	272.1	260.5	252.4	257.0	274.4	303.4	338.1	347.4
40°	4641.9	3425.0	423.8	255.9	244.3	238.5	242.0	250.1	274.4	306.8	312.6
42.5°	5014.7	3509.5	336.9	238.5	228.1	225.8	225.8	229.3	245.5	264.0	265.2
45°	5386.4	3539.6	282.5	217.7	210.7	213.0	211.9	209.6	216.5	214.2	214.2
47.5°	5651.6	3503.7	233.9	198.0	198.0	201.5	195.7	187.6	184.1	170.2	171.4
50°	5833.4	3372.9	192.2	174.8	184.1	188.7	177.2	164.4	151.7	136.6	133.2
52.5°	5908.6	3140.2	157.5	144.7	163.3	169.0	155.2	140.1	120.4	107.7	104.2
55°	5860.0	2853.0	130.8	118.1	137.8	144.7	130.8	113.5	91.5	77.6	75.3
57.5°	5645.8	2510.3	111.2	93.8	110.0	114.6	105.4	86.8	64.8	50.9	50.9
60°	5275.3	2156.0	90.3	74.1	82.2	89.2	79.9	62.5	44.0	31.3	28.9
62.5°	4523.8	1750.7	72.9	57.9	57.9	63.7	55.6	45.2	27.8	16.2	15.1
65°	3266.4	1200.7	57.9	42.8	41.7	41.7	34.7	30.1	16.2	6.9	4.6
67.5°	1775.0	677.4	46.3	32.4	28.9	27.8	22.0	17.4	6.9	1.2	0.0
70°	698.2	260.5	35.9	22.0	18.5	17.4	11.6	8.1	4.6	0.0	0.0
71°	473.6	179.5	31.3	18.5	15.1	12.7	9.3	6.9	3.5	0.0	0.0
72.5°	270.9	111.2	24.3	13.9	11.6	9.3	6.9	4.6	3.5	0.0	0.0
75°	118.1	56.7	15.1	10.4	8.1	5.8	4.6	3.5	1.2	0.0	0.0
77.5°	60.2	31.3	10.4	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0
80°	33.6	16.2	6.9	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
82.5°	18.5	9.3	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	0.0	0.0	0.0	0.0	1.2	1.2	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)