

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: STREETWORKS

Report Number: P652859

Luminaire Tested: **GLAN-SA4C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652859
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: STREETWORKS
Catalog Number: GLAN-SA4C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 16842.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

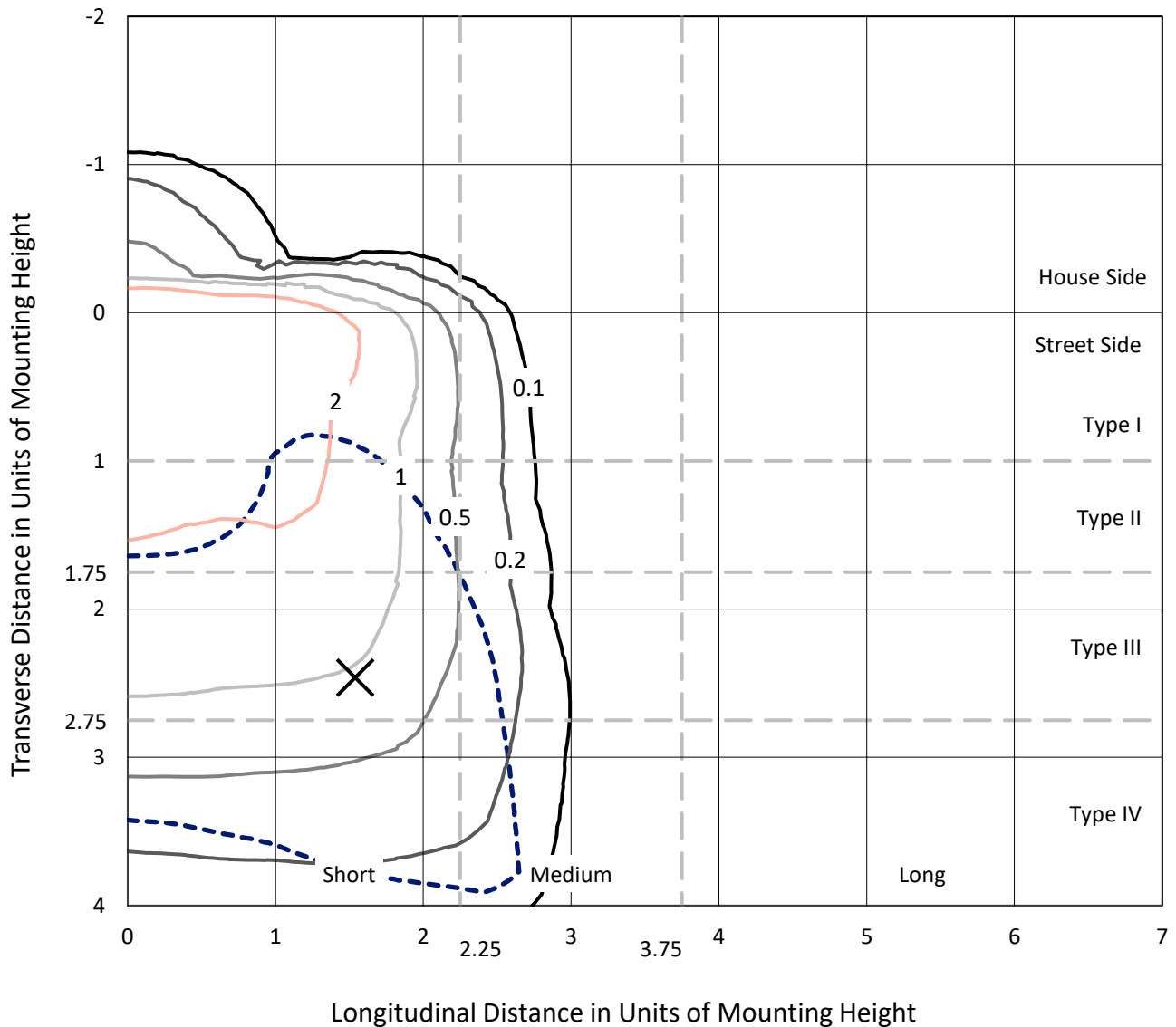
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652859
 CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

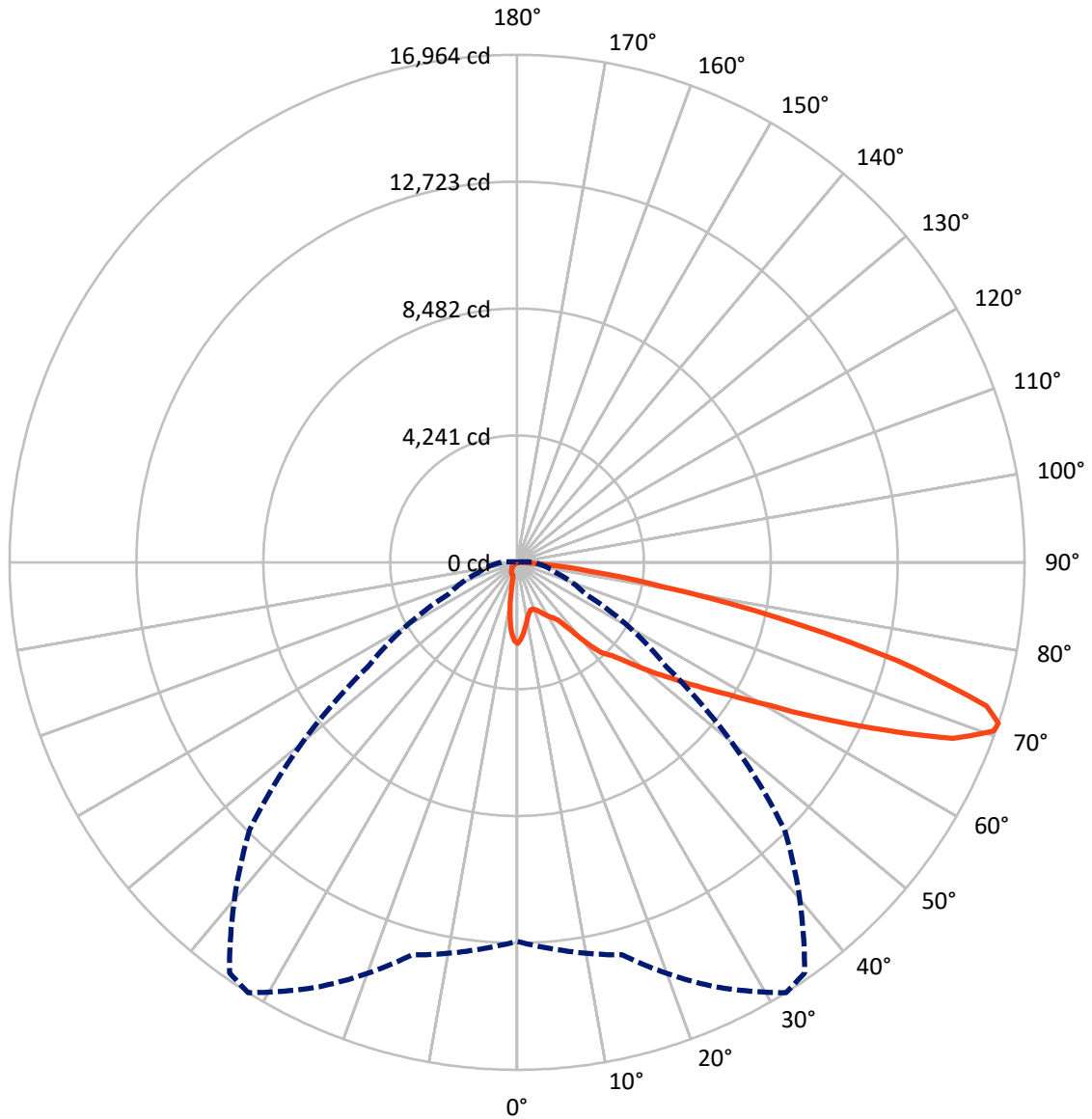
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P652859
CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652859
 CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.8	0.0	1410.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15432.0	0.0	15432.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	16842.7	0.0	16842.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.3
10°-20°	478.0	2.8
20°-30°	743.6	4.4
30°-40°	1238.9	7.4
40°-50°	2304.5	13.7
50°-60°	3700.0	22.0
60°-70°	4976.6	29.5
70°-80°	2952.7	17.5
80°-90°	228.2	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°	16842.7	100.0
0°-180°	16842.7	100.0

Coefficient of Utilization

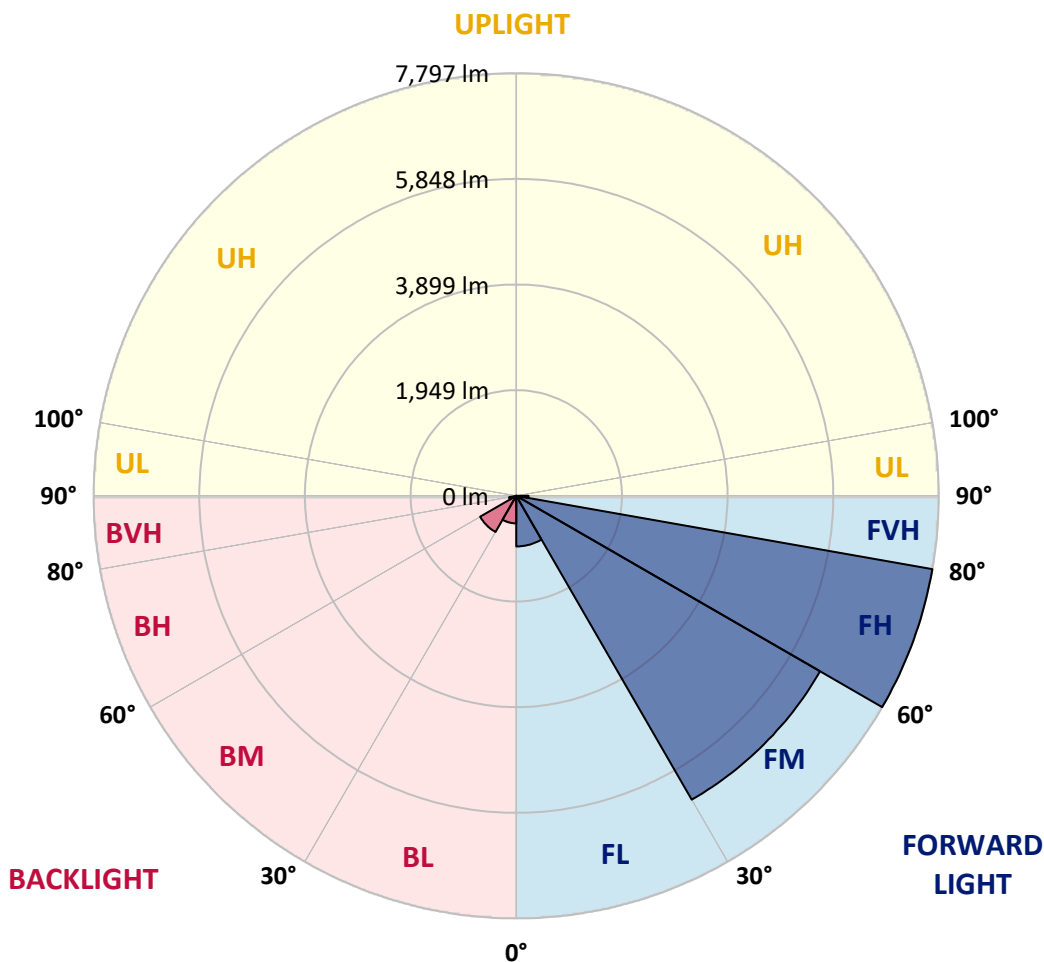


REPORT NUMBER: P652859
 CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.5	5.5			
FM (30°-60°)	6473.7	38.4			
FH (60°-80°)	7797.4	46.3			G4/12000
FVH (80°-90°)	227.4	1.3			G3/500
BL (0°-30°)	508.3	3.0	B2/1000		
BM (30°-60°)	769.6	4.6	B1/1000		
BH (60°-80°)	131.9	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P652859

CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6
2.5°	2512.1	2537.9	2534.0	2543.1	2565.0	2574.1	2598.7	2625.9	2663.3	2689.2	2706.0
5°	2249.6	2269.0	2271.5	2316.9	2338.8	2363.4	2435.8	2514.7	2602.6	2672.4	2719.0
7.5°	1969.0	1979.4	2000.1	2059.5	2115.1	2139.7	2249.6	2386.7	2525.0	2655.5	2739.6
10°	1737.6	1749.3	1786.8	1850.1	1901.8	1934.1	2086.7	2258.7	2452.6	2646.5	2769.3
12.5°	1605.7	1612.2	1626.4	1683.3	1749.3	1784.2	1948.3	2144.9	2394.4	2650.4	2819.8
15°	1596.7	1594.1	1577.3	1600.6	1660.0	1696.2	1856.6	2067.3	2342.7	2663.3	2879.2
17.5°	1644.6	1638.1	1598.0	1598.0	1647.1	1676.9	1817.8	2026.0	2316.9	2693.1	2963.3
20°	1718.2	1707.9	1642.0	1636.8	1684.6	1715.6	1841.0	2028.5	2322.0	2748.6	3075.7
22.5°	1811.3	1799.7	1700.2	1702.7	1754.4	1785.4	1908.3	2075.1	2354.3	2817.2	3196.0
25°	1932.9	1919.9	1802.3	1797.1	1851.4	1878.5	2007.8	2157.8	2399.5	2902.5	3353.7
27.5°	2094.4	2067.3	1926.4	1918.7	1976.8	2011.7	2128.1	2269.0	2479.8	3020.1	3565.8
30°	2227.6	2197.9	2063.4	2042.7	2104.8	2131.9	2252.2	2419.0	2637.5	3225.7	3859.3
32.5°	2402.1	2358.2	2200.5	2146.1	2212.1	2247.0	2431.9	2698.3	2871.5	3442.9	4208.3
35°	2795.2	2768.1	2575.4	2385.3	2381.5	2425.4	2696.9	2980.1	3112.0	3781.6	4684.1
37.5°	3357.6	3338.2	3133.9	2879.2	2805.6	2784.9	3018.9	3290.3	3496.0	4247.0	5237.4
40°	4010.5	3965.2	3777.8	3561.9	3466.2	3405.5	3399.0	3752.0	3997.5	4879.3	5814.1
42.5°	4478.5	4395.7	4168.2	4152.7	4132.0	4068.7	3885.1	4426.8	4645.3	5559.3	6430.8
45°	4969.8	4844.4	4505.7	4447.5	4439.7	4435.9	4619.4	5225.8	5351.2	6296.3	7064.2
47.5°	5351.2	5251.6	4973.7	4947.9	4980.1	5068.0	5590.4	6074.0	6048.1	6953.1	7595.7
50°	5859.3	5784.3	5475.3	5524.4	5691.2	5834.8	6685.4	6998.3	6620.8	7470.2	7982.2
52.5°	6459.2	6320.9	6033.8	6167.0	6423.0	6662.1	7847.7	7807.7	7022.9	7859.4	8270.5
55°	6979.0	6880.6	6782.4	6920.8	7303.4	7602.1	8897.5	8414.0	7315.1	8172.2	8397.2
57.5°	7858.1	7834.8	7734.0	7874.9	8339.0	8649.3	9837.5	8884.7	7502.6	8335.2	8248.5
60°	9158.7	9121.2	8933.8	9113.5	9718.5	10206.0	10703.7	9307.4	7545.2	8271.8	7820.6
62.5°	10723.1	10595.1	10434.8	10699.8	11529.9	11744.5	11519.5	9558.2	7386.2	7767.6	6788.9
65°	12184.1	12052.2	12056.1	12614.6	13518.3	13664.4	12471.0	9520.7	6920.8	6504.5	5007.3
67.5°	13302.3	13280.4	13438.2	14528.0	15709.7	15608.9	13321.8	8959.6	5541.3	4216.1	2660.8
70°	13359.3	13401.9	13854.5	15694.2	16894.0	16733.6	13249.4	7282.7	3454.6	1939.3	1048.6
71°	12671.4	12958.5	13584.3	15658.0	16963.8	16755.7	12639.1	6099.8	2534.0	1352.3	756.3
72.5°	10798.1	10949.3	12301.7	14736.2	16411.8	15967.0	11091.5	4275.6	1622.5	827.5	434.4
75°	5947.2	6319.5	8238.2	11560.9	13126.6	12736.1	7228.5	2031.1	809.4	452.5	179.7
77.5°	2831.4	2759.0	4019.6	6875.5	8900.1	8879.4	3642.0	902.4	471.9	306.4	90.5
80°	809.4	910.2	1538.5	3268.4	4941.4	4995.6	1398.9	435.7	327.1	239.2	46.5
82.5°	244.4	249.5	565.0	1445.4	2457.7	2316.9	524.9	222.4	235.3	190.1	27.2
85°	42.6	53.0	166.8	509.4	937.3	711.1	131.9	106.1	155.2	125.4	15.5
87.5°	2.6	3.9	55.6	58.2	82.8	47.9	23.3	15.5	33.6	33.6	9.1
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: P652859

CATALOG NUMBER: GLAN-SA4C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6
2.5°	2717.6	2725.3	2720.2	2708.6	2689.2	2665.9	2634.9	2609.0	2587.0	2575.4	2589.6
5°	2734.4	2744.8	2719.0	2660.8	2572.8	2477.2	2368.5	2284.5	2218.6	2197.9	2190.1
7.5°	2760.2	2766.7	2696.9	2567.7	2381.5	2155.2	1957.4	1790.7	1661.3	1622.5	1565.7
10°	2793.9	2790.0	2658.1	2417.7	2090.6	1750.5	1444.2	1216.6	1044.6	982.6	977.4
12.5°	2845.6	2824.9	2609.0	2213.4	1744.1	1299.3	920.6	720.1	611.5	575.3	567.6
15°	2910.3	2861.2	2531.4	1974.2	1335.5	839.1	567.6	506.8	492.6	490.0	487.4
17.5°	2986.6	2908.9	2429.3	1680.7	938.6	544.3	474.5	473.2	474.5	471.9	470.6
20°	3090.0	2959.4	2307.8	1333.0	620.6	458.9	452.5	452.5	453.8	452.5	452.5
22.5°	3199.8	3018.9	2157.8	1017.5	468.0	435.7	434.4	437.0	439.6	438.2	438.2
25°	3335.6	3096.4	1960.0	696.9	418.9	416.3	417.6	422.8	427.9	429.2	427.9
27.5°	3532.1	3192.1	1747.9	479.6	384.0	386.6	399.5	412.4	420.2	421.5	421.5
30°	3753.2	3298.1	1471.3	389.1	355.6	355.6	371.0	395.6	412.4	415.0	416.3
32.5°	4037.6	3420.9	1164.9	350.4	328.4	325.8	340.0	369.8	400.8	409.8	409.8
35°	4389.3	3565.8	866.2	325.8	309.0	302.5	310.3	334.9	374.9	400.8	403.3
37.5°	4801.8	3702.8	633.5	303.9	290.9	281.8	287.0	306.4	338.8	377.5	387.9
40°	5183.2	3824.3	473.2	285.7	272.8	266.3	270.2	279.3	306.4	342.6	349.1
42.5°	5599.5	3918.7	376.3	266.3	254.7	252.1	252.1	256.0	274.1	294.8	296.0
45°	6014.4	3952.3	315.5	243.0	235.3	237.9	236.6	234.1	241.8	239.2	239.2
47.5°	6310.5	3912.2	261.1	221.1	221.1	225.0	218.5	209.4	205.5	190.1	191.3
50°	6513.5	3766.2	214.6	195.2	205.5	210.8	197.8	183.6	169.4	152.6	148.7
52.5°	6597.6	3506.3	175.9	161.6	182.3	188.7	173.2	156.4	134.5	120.3	116.4
55°	6543.2	3185.6	146.1	131.9	153.8	161.6	146.1	126.7	102.1	86.6	84.0
57.5°	6304.1	2803.0	124.1	104.7	122.8	128.0	117.7	97.0	72.4	56.9	56.9
60°	5890.4	2407.4	100.8	82.8	91.8	99.6	89.2	69.8	49.1	34.9	32.3
62.5°	5051.3	1954.8	81.5	64.7	64.7	71.1	62.1	50.5	31.0	18.1	16.8
65°	3647.2	1340.7	64.7	47.9	46.5	46.5	38.8	33.6	18.1	7.7	5.1
67.5°	1982.0	756.3	51.7	36.2	32.3	31.0	24.6	19.4	7.7	1.3	0.0
70°	779.6	290.9	40.1	24.6	20.7	19.4	13.0	9.1	5.1	0.0	0.0
71°	528.8	200.4	34.9	20.7	16.8	14.2	10.3	7.7	3.9	0.0	0.0
72.5°	302.5	124.1	27.2	15.5	13.0	10.3	7.7	5.1	3.9	0.0	0.0
75°	131.9	63.3	16.8	11.6	9.1	6.5	5.1	3.9	1.3	0.0	0.0
77.5°	67.2	34.9	11.6	9.1	5.1	3.9	2.6	1.3	0.0	0.0	0.0
80°	37.5	18.1	7.7	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	20.7	10.3	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.6	0.0	0.0	0.0	0.0	1.3	1.3	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)