

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: P322838

Luminaire Tested: **GAN-SA4B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15215 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

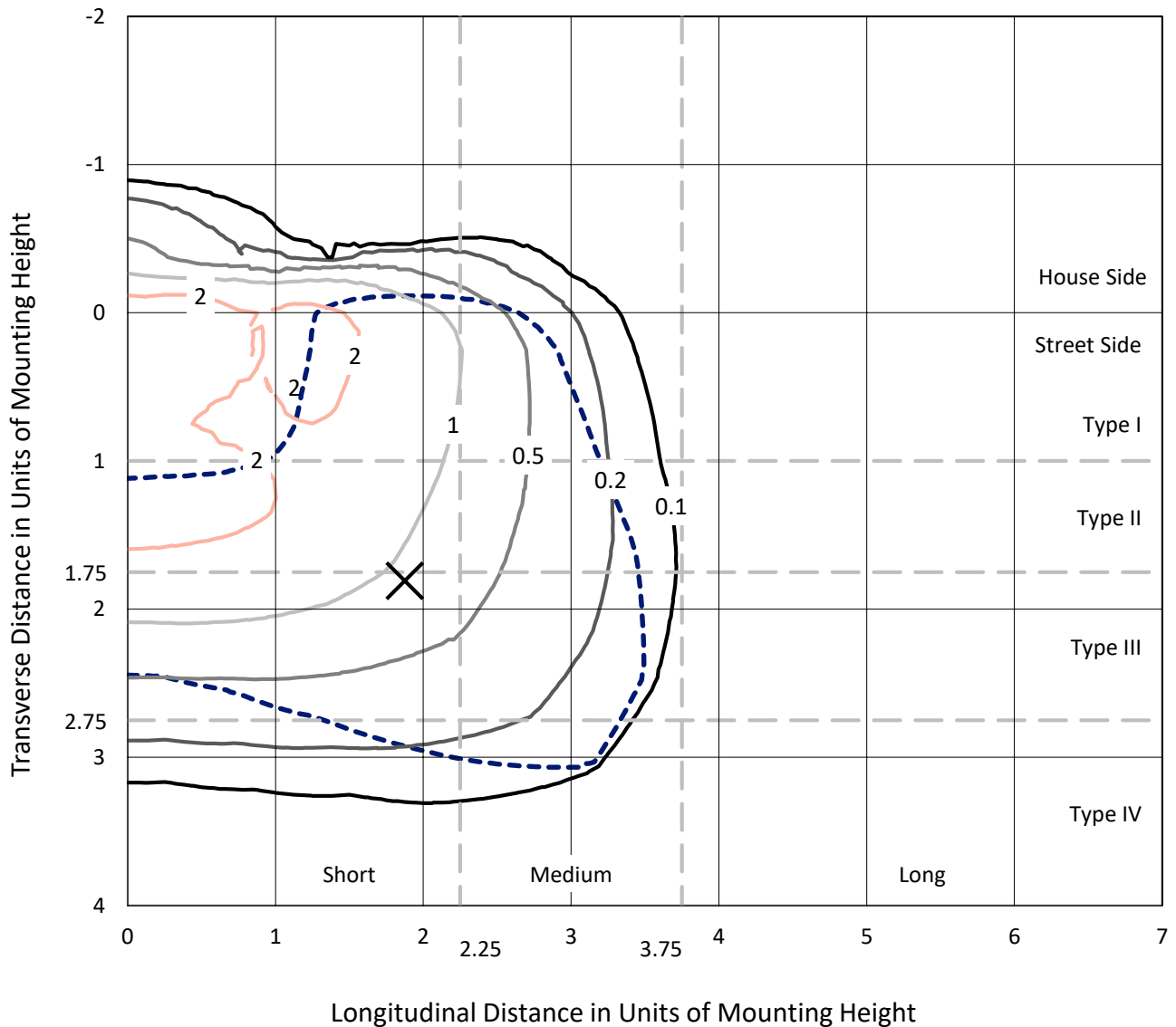
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

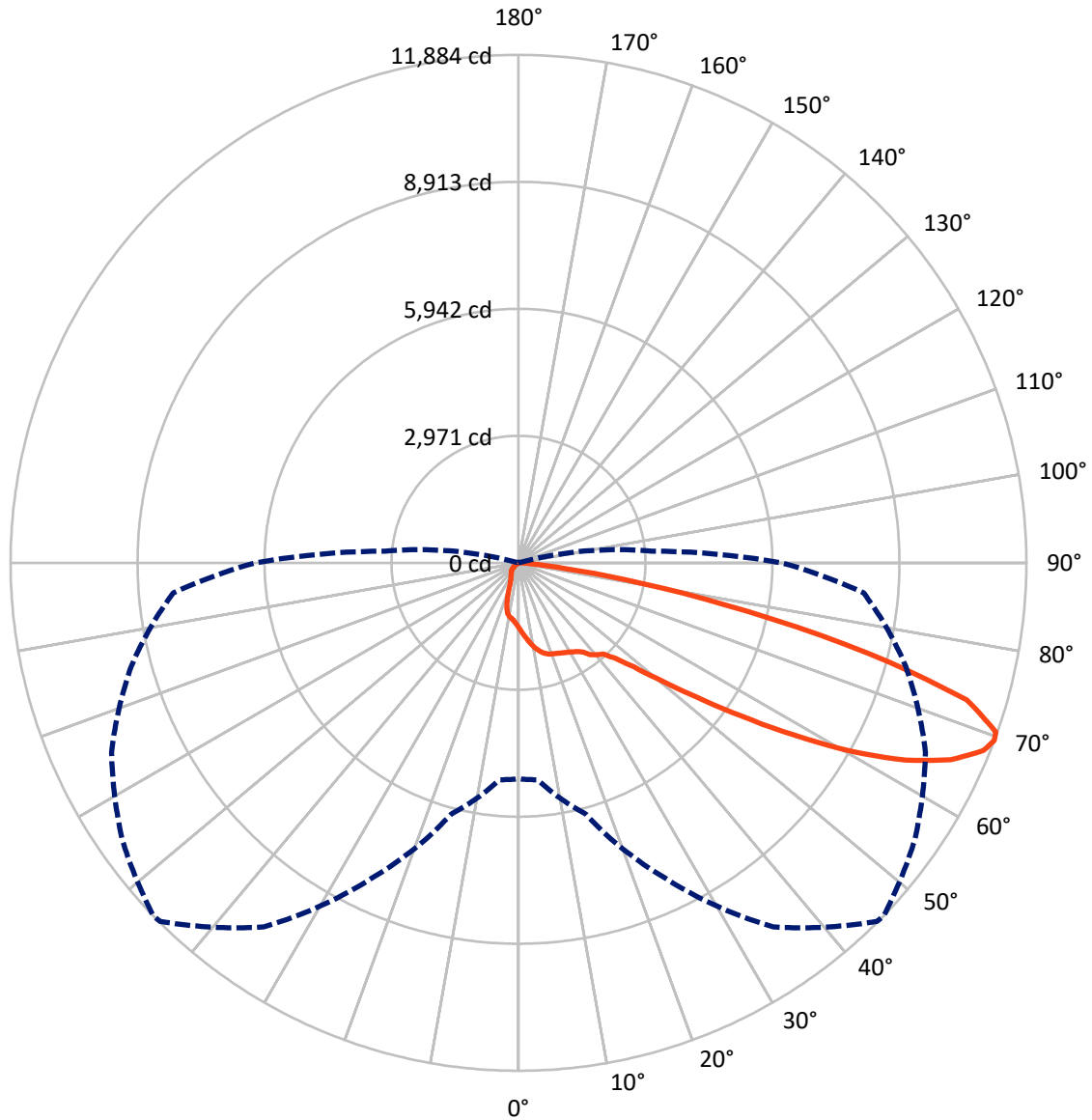
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1561.5	0.0	1561.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13653.5	0.0	13653.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	15215.0	0.0	15215.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.0
10°-20°	460.3	3.0
20°-30°	724.0	4.8
30°-40°	1038.2	6.8
40°-50°	1794.3	11.8
50°-60°	3544.9	23.3
60°-70°	4954.3	32.6
70°-80°	2393.5	15.7
80°-90°	153.8	1.0
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°	15215.0	100.0
0°-180°	15215.0	100.0

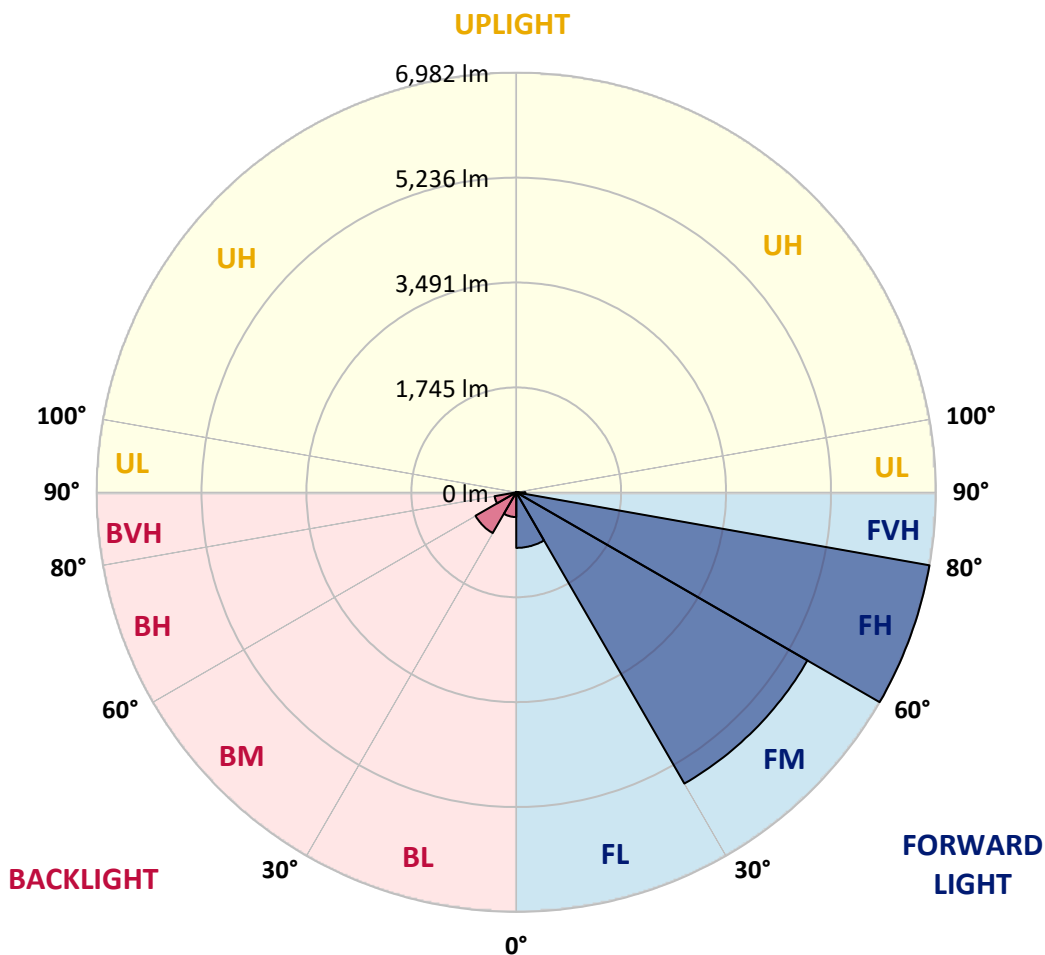


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.5	6.1			
FM (30°-60°)	5594.9	36.8			
FH (60°-80°)	6981.6	45.9			G3/7500
FVH (80°-90°)	152.5	1.0			G2/225
BL (0°-30°)	411.5	2.7	B1/500		
BM (30°-60°)	782.5	5.1	B1/1000		
BH (60°-80°)	366.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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°	35°	45°	46°	55°	65°	75°	85°
0°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1693.6	1691.4	1681.4	1677.1	1652.9	1638.6	1632.9	1615.1	1589.4	1563.7	1535.2
5°	1886.2	1885.5	1866.9	1849.1	1803.4	1760.6	1752.8	1711.4	1653.6	1599.4	1545.2
7.5°	2083.1	2073.8	2055.2	2021.0	1954.7	1886.2	1879.7	1821.3	1739.2	1660.7	1583.0
10°	2250.0	2244.3	2220.0	2168.0	2090.2	2012.4	2004.6	1932.5	1839.8	1743.5	1644.3
12.5°	2379.8	2375.5	2343.4	2278.5	2195.8	2115.2	2104.5	2040.3	1941.1	1833.4	1716.4
15°	2459.0	2456.9	2417.6	2348.4	2267.1	2197.2	2187.9	2131.6	2039.5	1926.8	1794.9
17.5°	2477.6	2478.3	2437.6	2367.7	2300.6	2250.7	2243.6	2200.8	2123.7	2011.7	1873.3
20°	2436.2	2444.7	2408.4	2347.7	2306.3	2280.0	2274.2	2248.6	2183.6	2078.1	1936.1
22.5°	2377.7	2382.0	2357.0	2316.3	2299.2	2304.2	2301.4	2287.1	2232.2	2135.1	1998.2
25°	2342.0	2342.0	2327.0	2292.8	2304.2	2334.9	2335.6	2332.7	2289.2	2205.0	2073.8
27.5°	2340.6	2336.3	2319.2	2293.5	2324.9	2372.0	2374.8	2394.1	2367.0	2289.9	2168.0
30°	2397.7	2392.7	2356.3	2322.8	2362.7	2413.4	2420.5	2462.6	2449.0	2382.0	2272.8
32.5°	2531.1	2513.2	2432.6	2377.7	2407.6	2468.3	2477.6	2544.6	2566.0	2495.4	2374.1
35°	2713.7	2657.3	2541.0	2481.8	2484.7	2548.2	2556.7	2655.2	2718.7	2599.5	2452.6
37.5°	2965.5	2937.7	2748.6	2590.3	2603.1	2699.4	2724.4	2831.4	2813.6	2656.6	2541.8
40°	3517.7	3474.1	3273.0	2894.2	2716.5	2822.1	2830.0	2887.0	2888.5	2785.7	2727.2
42.5°	4269.6	4251.7	4039.9	3445.6	2939.8	2904.2	2918.4	3014.7	3122.5	3058.2	3055.4
45°	5102.1	5092.8	4868.1	4177.5	3391.4	3173.1	3190.9	3320.1	3526.2	3540.5	3631.1
47.5°	5771.9	5767.7	5638.5	4994.4	4082.7	3628.9	3634.7	3771.6	4134.0	4313.1	4457.9
50°	6382.6	6403.3	6301.3	5878.2	5024.3	4343.0	4329.5	4420.8	5002.9	5296.1	5475.9
52.5°	7231.5	7260.7	6974.7	6702.9	6012.3	5229.1	5218.4	5313.9	6047.3	6267.0	6299.1
55°	7981.3	7931.3	7705.2	7626.7	7217.2	6323.4	6320.5	6404.7	7057.4	7150.9	7210.1
57.5°	8312.3	8293.0	8402.2	8581.9	8479.2	7616.7	7610.3	7546.1	7961.3	7971.3	8153.2
60°	8521.3	8544.8	8879.4	9433.7	9689.8	9008.5	8967.1	8575.5	8824.5	8802.4	8997.1
62.5°	8364.3	8410.7	9012.8	9936.6	10595.8	10223.4	10164.9	9518.6	9562.1	9485.8	9667.0
65°	7531.1	7603.2	8589.8	9841.7	11045.2	11172.9	11113.7	10351.1	10147.8	10022.2	9921.6
67.5°	6115.1	6157.9	7188.0	9016.4	10842.6	11739.3	11727.2	11080.9	10590.1	9931.6	9151.2
69°	5053.6	5095.7	6087.2	8147.5	10396.8	11860.6	11884.1	11314.9	10505.9	9380.9	8108.2
70°	4280.3	4325.2	5249.0	7402.7	9879.6	11804.2	11846.3	11292.8	10264.8	8743.1	7193.0
72.5°	2245.0	2283.5	3231.6	5099.9	8054.0	10839.0	10966.7	10338.3	8701.1	6349.8	4253.2
75°	705.5	727.6	1262.0	2665.9	5514.4	8427.8	8457.1	8109.7	6178.6	3492.7	1771.3
77.5°	268.9	262.5	420.2	982.3	2787.9	5306.8	5485.9	5067.8	3242.3	1234.9	408.8
80°	144.8	145.5	218.3	406.6	1192.8	2727.2	2878.5	2456.2	1152.1	385.2	94.2
82.5°	62.8	65.6	122.7	215.4	547.9	1005.9	1081.5	900.3	440.2	259.0	35.0
85°	13.6	15.0	59.2	117.0	223.3	282.5	296.1	291.8	280.4	201.2	13.6
87.5°	0.0	0.0	26.4	42.1	56.4	64.2	56.4	73.5	154.8	135.5	7.1
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°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1525.9	1513.1	1491.0	1466.7	1449.6	1431.7	1417.5	1411.1	1403.9	1398.9	1405.4
5°	1523.1	1498.1	1455.3	1413.9	1384.0	1359.7	1339.7	1331.9	1324.0	1318.3	1317.6
7.5°	1548.0	1513.1	1447.4	1386.8	1340.4	1307.6	1280.5	1269.1	1259.8	1255.5	1252.0
10°	1595.8	1550.9	1463.1	1384.0	1324.0	1268.4	1209.9	1164.9	1135.7	1122.1	1117.1
12.5°	1657.9	1601.5	1493.1	1398.9	1311.9	1204.9	1080.8	973.8	904.6	881.7	868.2
15°	1730.7	1660.7	1532.3	1418.2	1267.7	1072.2	861.8	721.9	657.7	644.9	630.6
17.5°	1800.6	1723.5	1579.4	1421.8	1170.7	856.8	631.3	536.5	511.5	520.1	522.2
20°	1861.9	1785.6	1625.8	1390.4	994.4	642.8	488.7	465.1	474.4	490.8	493.7
22.5°	1924.0	1845.5	1668.6	1307.6	769.0	487.9	440.2	445.9	455.1	471.5	474.4
25°	1999.6	1918.3	1708.5	1155.7	577.1	415.2	418.0	426.6	435.9	450.9	452.3
27.5°	2086.6	2010.3	1734.9	958.1	428.0	381.7	390.9	403.8	413.0	427.3	430.2
30°	2202.2	2131.6	1743.5	753.3	358.8	351.7	356.0	371.7	385.2	398.1	400.2
32.5°	2310.6	2251.4	1715.0	568.6	332.4	323.9	323.9	333.1	348.8	361.0	363.8
35°	2410.5	2372.0	1623.6	415.9	312.5	298.2	291.1	291.1	301.0	311.0	313.9
37.5°	2542.5	2541.0	1476.0	331.7	293.2	276.8	261.8	250.4	246.8	249.0	250.4
40°	2768.6	2770.8	1283.4	297.5	276.8	254.7	231.8	211.2	191.9	185.5	184.8
42.5°	3121.7	3089.6	1081.5	281.1	262.5	231.8	197.6	169.8	139.8	130.5	129.8
45°	3682.5	3492.0	867.5	266.1	247.5	206.2	163.4	125.6	101.3	94.2	94.2
47.5°	4499.3	4020.6	672.0	249.7	227.6	176.9	123.4	90.6	74.2	70.6	71.3
50°	5343.9	4538.5	515.1	229.0	203.3	146.2	91.3	65.6	56.4	56.4	57.1
52.5°	6093.0	4918.0	401.6	206.9	173.4	114.9	69.2	51.4	47.1	46.4	47.1
55°	6794.2	5162.7	307.5	181.2	137.7	85.6	52.8	42.1	39.2	37.8	37.1
57.5°	7470.5	5284.0	230.4	146.2	99.9	62.1	42.1	35.7	32.8	30.7	30.0
60°	7920.6	5185.5	158.4	107.7	69.2	44.9	35.0	30.7	27.1	25.0	24.3
62.5°	8174.6	4916.6	102.0	77.8	49.2	33.5	27.8	25.7	20.7	18.5	18.5
65°	8071.9	4472.9	71.3	55.6	35.7	25.0	20.7	20.7	15.0	12.1	11.4
67.5°	7153.0	3778.8	54.2	41.4	25.7	18.5	15.7	17.8	9.3	5.7	5.7
69°	6154.3	3131.7	46.4	34.2	21.4	15.0	13.6	16.4	6.4	4.3	3.6
70°	5348.9	2701.6	42.1	30.0	17.8	12.8	12.1	15.7	6.4	3.6	2.9
72.5°	3200.2	1506.7	32.1	21.4	11.4	10.0	10.0	17.8	6.4	3.6	2.9
75°	1293.4	530.8	23.5	15.0	8.6	8.6	12.1	22.8	5.7	2.9	2.1
77.5°	293.2	116.3	13.6	9.3	5.7	8.6	14.3	17.8	3.6	1.4	0.0
80°	71.3	28.5	8.6	5.7	3.6	6.4	10.7	10.0	0.7	0.0	0.0
82.5°	23.5	10.0	3.6	2.9	0.7	2.1	5.0	2.9	0.0	0.0	0.0
85°	10.0	5.7	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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)