

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: P322857

Luminaire Tested: **GAN-SA3D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322857
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-SA3D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 15635 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

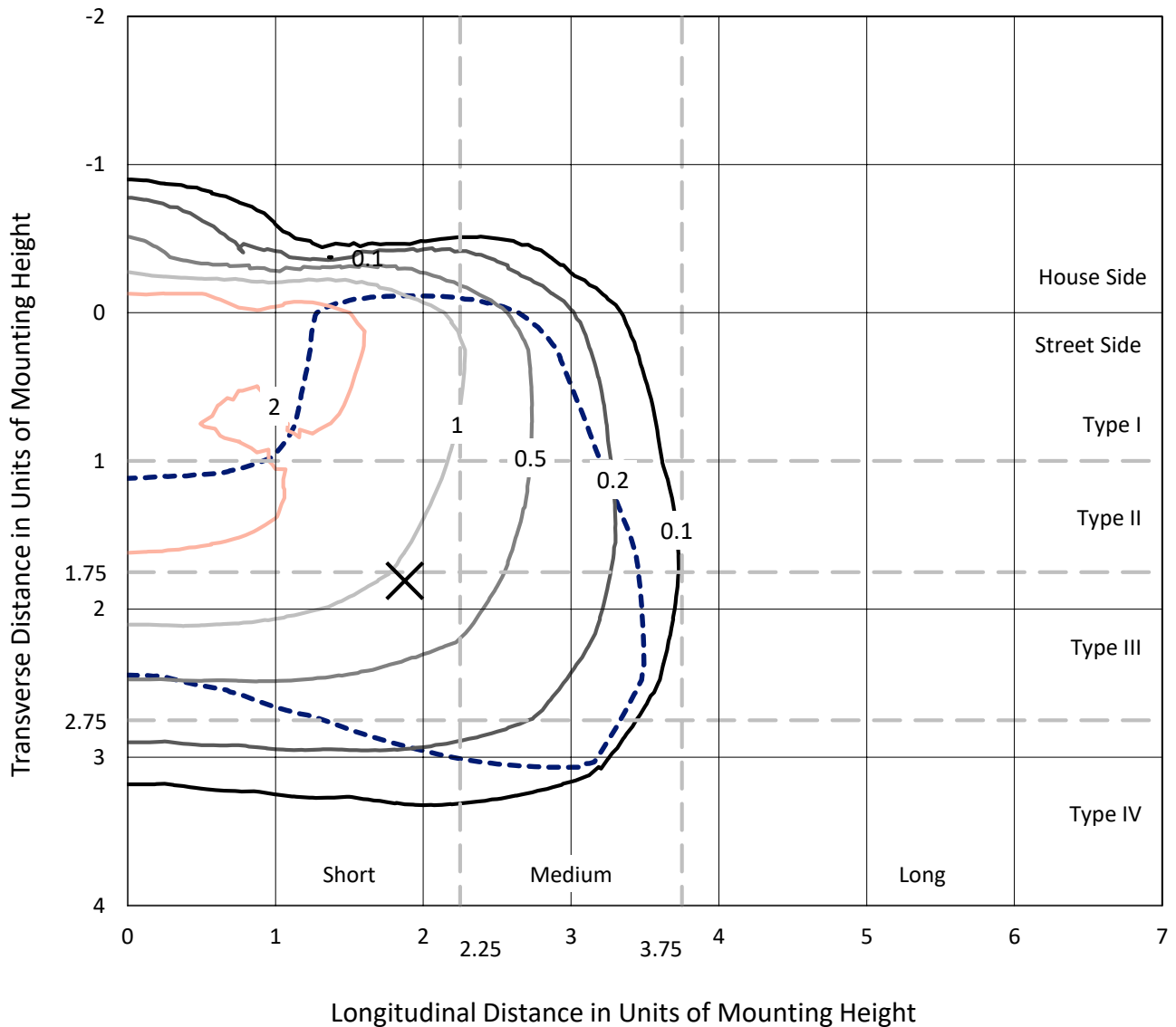
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

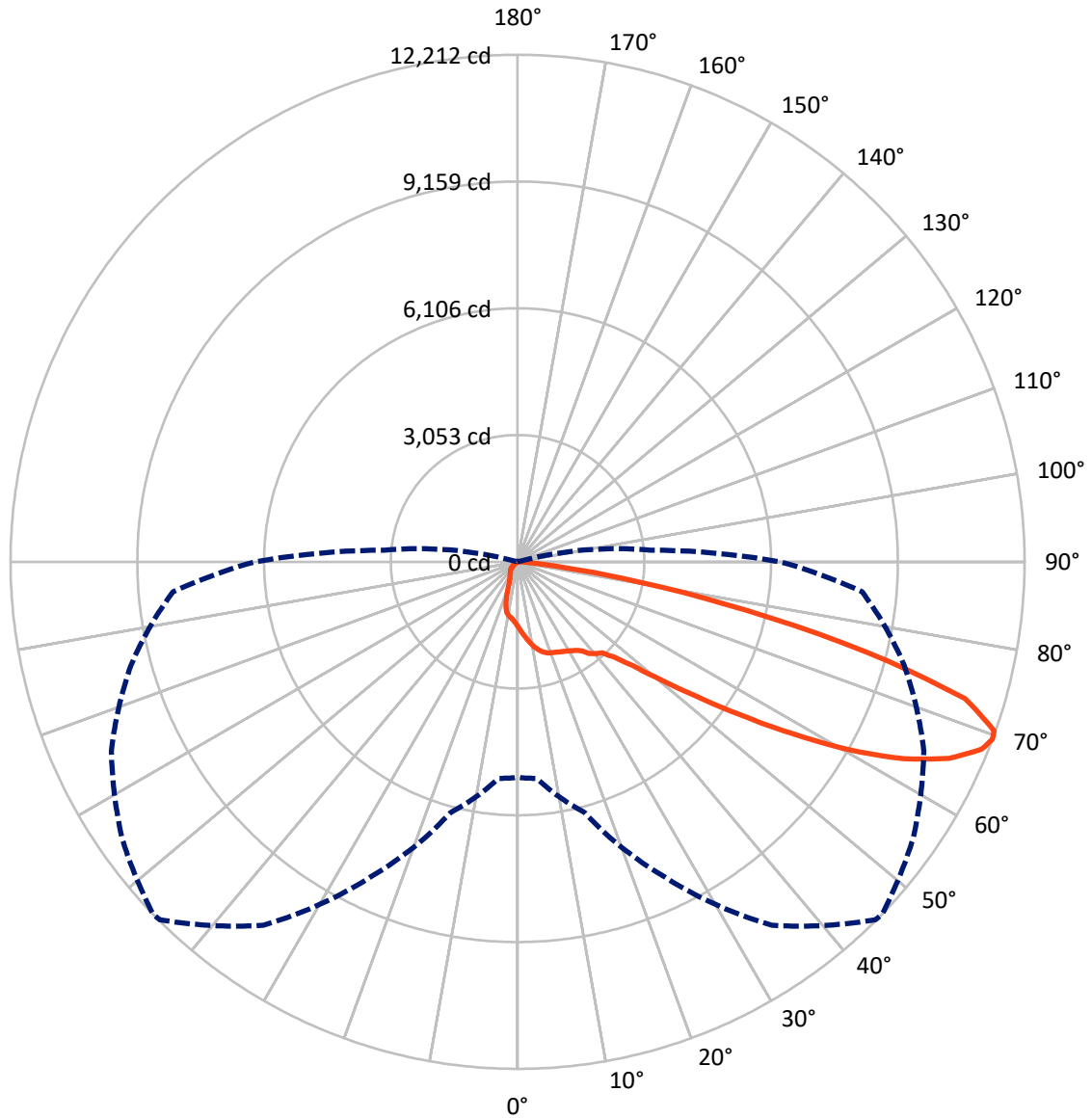
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.6	0.0	1604.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14030.4	0.0	14030.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	15635.0	0.0	15635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.0
10°-20°	473.0	3.0
20°-30°	743.9	4.8
30°-40°	1066.8	6.8
40°-50°	1843.9	11.8
50°-60°	3642.7	23.3
60°-70°	5091.0	32.6
70°-80°	2459.5	15.7
80°-90°	158.1	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°	15635.0	100.0
0°-180°	15635.0	100.0

Coefficient of Utilization



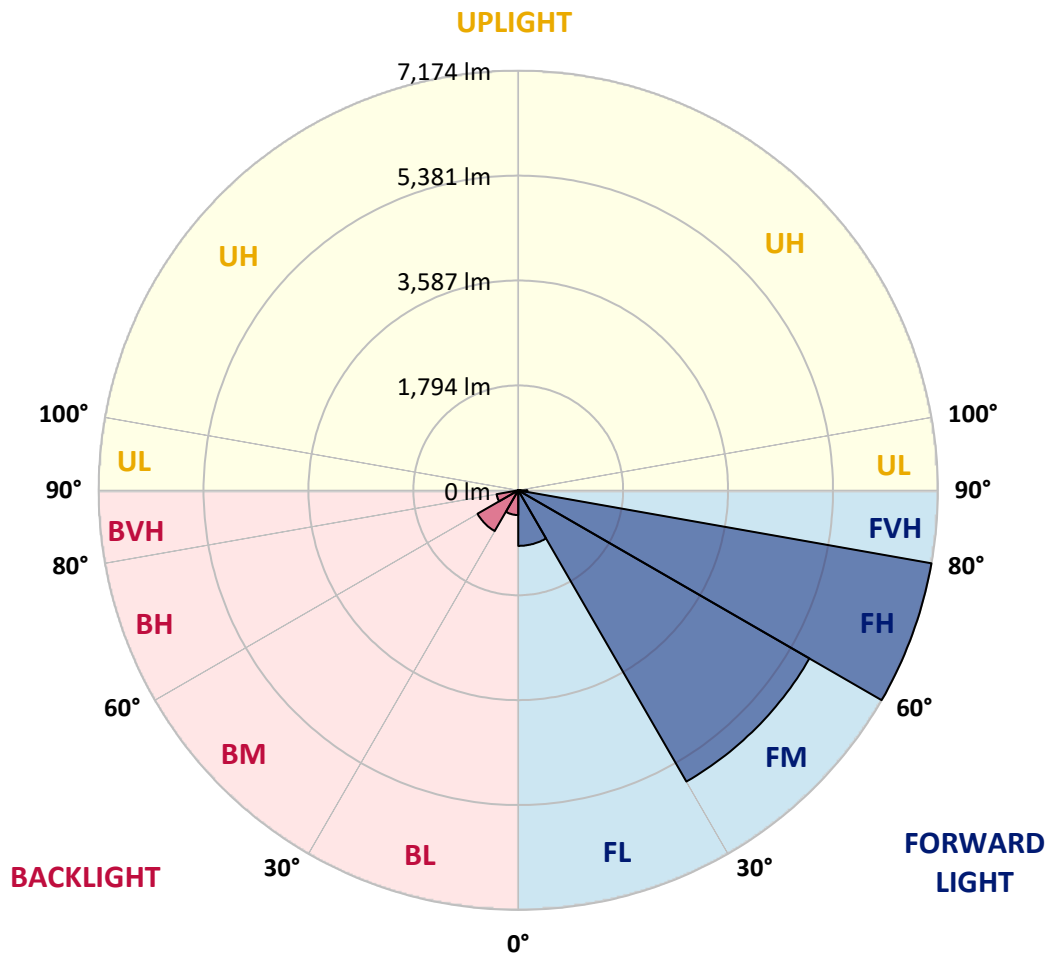
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.0	6.1			
FM (30°-60°)	5749.3	36.8			
FH (60°-80°)	7174.3	45.9			G3/7500
FVH (80°-90°)	156.8	1.0			G2/225
BL (0°-30°)	422.9	2.7	B1/500		
BM (30°-60°)	804.1	5.1	B1/1000		
BH (60°-80°)	376.3	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°	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6
2.5°	1740.3	1738.1	1727.8	1723.4	1698.5	1683.9	1678.0	1659.7	1633.3	1606.9	1577.6
5°	1938.2	1937.5	1918.4	1900.1	1853.2	1809.2	1801.2	1758.6	1699.3	1643.5	1587.8
7.5°	2140.6	2131.0	2112.0	2076.8	2008.6	1938.2	1931.6	1871.5	1787.2	1706.6	1626.7
10°	2312.1	2306.2	2281.3	2227.8	2147.9	2068.0	2059.9	1985.9	1890.6	1791.6	1689.7
12.5°	2445.5	2441.1	2408.1	2341.4	2256.4	2173.5	2162.6	2096.6	1994.7	1884.0	1763.8
15°	2526.9	2524.7	2484.4	2413.3	2329.7	2257.9	2248.3	2190.4	2095.8	1980.0	1844.4
17.5°	2545.9	2546.7	2504.9	2433.1	2364.1	2312.8	2305.5	2261.5	2182.3	2067.3	1925.0
20°	2503.4	2512.2	2474.8	2412.5	2370.0	2342.9	2337.0	2310.6	2243.9	2135.4	1989.5
22.5°	2443.3	2447.7	2422.1	2380.3	2362.7	2367.8	2364.9	2350.2	2293.8	2194.1	2053.3
25°	2406.7	2406.7	2391.3	2356.1	2367.8	2399.3	2400.1	2397.1	2352.4	2265.9	2131.0
27.5°	2405.2	2400.8	2383.2	2356.8	2389.1	2437.5	2440.4	2460.2	2432.3	2353.2	2227.8
30°	2463.8	2458.7	2421.3	2386.9	2427.9	2480.0	2487.3	2530.6	2516.6	2447.7	2335.6
32.5°	2600.9	2582.6	2499.8	2443.3	2474.1	2536.4	2545.9	2614.9	2636.8	2564.3	2439.7
35°	2788.6	2730.7	2611.2	2550.3	2553.3	2618.5	2627.3	2728.5	2793.7	2671.3	2520.3
37.5°	3047.4	3018.8	2824.5	2661.8	2675.0	2773.9	2799.6	2909.6	2891.2	2729.9	2611.9
40°	3614.8	3570.0	3363.3	2974.1	2791.5	2900.0	2908.1	2966.7	2968.2	2862.6	2802.5
42.5°	4387.4	4369.1	4151.4	3540.7	3021.0	2984.3	2999.0	3097.9	3208.6	3142.7	3139.7
45°	5242.9	5233.4	5002.5	4292.9	3485.0	3260.7	3279.0	3411.7	3623.6	3638.2	3731.3
47.5°	5931.3	5926.9	5794.2	5132.2	4195.4	3729.1	3735.0	3875.7	4248.1	4432.1	4580.9
50°	6558.8	6580.0	6475.2	6040.5	5163.0	4462.9	4449.0	4542.8	5141.0	5442.3	5627.0
52.5°	7431.1	7461.2	7167.2	6887.9	6178.3	5373.4	5362.4	5460.6	6214.2	6440.0	6473.0
55°	8201.6	8150.3	7917.9	7837.2	7416.5	6497.9	6495.0	6581.5	7252.3	7348.3	7409.1
57.5°	8541.7	8521.9	8634.1	8818.8	8713.3	7827.0	7820.4	7754.4	8181.1	8191.3	8378.2
60°	8756.5	8780.7	9124.5	9694.1	9957.3	9257.2	9214.7	8812.2	9068.1	9045.3	9245.5
62.5°	8595.2	8642.9	9261.6	10210.9	10888.3	10505.6	10445.5	9781.3	9826.1	9747.6	9933.8
65°	7739.0	7813.0	8826.9	10113.4	11350.1	11481.3	11420.5	10636.8	10427.9	10298.9	10195.5
67.5°	6283.9	6327.9	7386.4	9265.3	11141.9	12063.4	12050.9	11386.8	10882.4	10205.8	9403.8
69°	5193.1	5236.3	6255.3	8372.4	10683.7	12188.0	12212.2	11627.2	10795.9	9639.9	8332.1
70°	4398.4	4444.6	5393.9	7607.1	10152.3	12130.1	12173.3	11604.5	10548.1	8984.5	7391.5
72.5°	2307.0	2346.6	3320.8	5240.7	8276.3	11138.3	11269.5	10623.6	8941.2	6525.0	4370.6
75°	725.0	747.7	1296.8	2739.5	5666.6	8660.5	8690.5	8333.5	6349.1	3589.1	1820.2
77.5°	276.4	269.8	431.8	1009.4	2864.8	5453.3	5637.3	5207.7	3331.8	1268.9	420.0
80°	148.8	149.5	224.3	417.8	1225.7	2802.5	2957.9	2524.0	1183.9	395.9	96.8
82.5°	64.5	67.4	126.1	221.4	563.0	1033.6	1111.3	925.1	452.3	266.1	35.9
85°	13.9	15.4	60.8	120.2	229.5	290.3	304.2	299.8	288.1	206.7	13.9
87.5°	0.0	0.0	27.1	43.3	57.9	66.0	57.9	75.5	159.1	139.3	7.3
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°	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6
2.5°	1568.0	1554.8	1532.1	1507.2	1489.6	1471.3	1456.6	1450.0	1442.7	1437.5	1444.1
5°	1565.1	1539.4	1495.5	1452.9	1422.2	1397.2	1376.7	1368.6	1360.6	1354.7	1354.0
7.5°	1590.8	1554.8	1487.4	1425.1	1377.4	1343.7	1315.9	1304.1	1294.6	1290.2	1286.5
10°	1639.9	1593.7	1503.5	1422.2	1360.6	1303.4	1243.3	1197.1	1167.0	1153.1	1148.0
12.5°	1703.7	1645.7	1534.3	1437.5	1348.1	1238.2	1110.6	1000.6	929.5	906.1	892.1
15°	1778.4	1706.6	1574.6	1457.3	1302.7	1101.8	885.5	741.9	675.9	662.7	648.0
17.5°	1850.3	1771.1	1623.0	1461.0	1203.0	880.4	648.8	551.3	525.6	534.4	536.6
20°	1913.3	1834.9	1670.7	1428.8	1021.9	660.5	502.2	478.0	487.5	504.4	507.3
22.5°	1977.1	1896.4	1714.6	1343.7	790.2	501.4	452.3	458.2	467.7	484.6	487.5
25°	2054.8	1971.2	1755.7	1187.6	593.1	426.6	429.6	438.4	447.9	463.3	464.8
27.5°	2144.2	2065.8	1782.8	984.5	439.8	392.2	401.7	414.9	424.4	439.1	442.0
30°	2263.0	2190.4	1791.6	774.1	368.7	361.4	365.8	381.9	395.9	409.1	411.3
32.5°	2374.4	2313.6	1762.3	584.3	341.6	332.8	332.8	342.3	358.5	370.9	373.9
35°	2477.0	2437.5	1668.5	427.4	321.1	306.4	299.1	299.1	309.4	319.6	322.6
37.5°	2612.7	2611.2	1516.7	340.9	301.3	284.4	269.0	257.3	253.6	255.8	257.3
40°	2845.0	2847.2	1318.8	305.7	284.4	261.7	238.2	217.0	197.2	190.6	189.9
42.5°	3207.9	3174.9	1111.3	288.8	269.8	238.2	203.1	174.5	143.7	134.2	133.4
45°	3784.1	3588.4	891.4	273.4	254.4	211.9	167.9	129.0	104.1	96.8	96.8
47.5°	4623.5	4131.6	690.6	256.6	233.8	181.8	126.8	93.1	76.2	72.6	73.3
50°	5491.4	4663.8	529.3	235.3	208.9	150.3	93.8	67.4	57.9	57.9	58.6
52.5°	6261.1	5053.8	412.7	212.6	178.1	118.0	71.1	52.8	48.4	47.6	48.4
55°	6981.7	5305.2	316.0	186.2	141.5	88.0	54.2	43.3	40.3	38.9	38.1
57.5°	7676.7	5429.8	236.8	150.3	102.6	63.8	43.3	36.7	33.7	31.5	30.8
60°	8139.3	5328.7	162.7	110.7	71.1	46.2	35.9	31.5	27.9	25.7	24.9
62.5°	8400.2	5052.3	104.8	79.9	50.6	34.5	28.6	26.4	21.3	19.1	19.1
65°	8294.7	4596.3	73.3	57.2	36.7	25.7	21.3	21.3	15.4	12.5	11.7
67.5°	7350.5	3883.1	55.7	42.5	26.4	19.1	16.1	18.3	9.5	5.9	5.9
69°	6324.2	3218.2	47.6	35.2	22.0	15.4	13.9	16.9	6.6	4.4	3.7
70°	5496.6	2776.1	43.3	30.8	18.3	13.2	12.5	16.1	6.6	3.7	2.9
72.5°	3288.5	1548.2	33.0	22.0	11.7	10.3	10.3	18.3	6.6	3.7	2.9
75°	1329.1	545.4	24.2	15.4	8.8	8.8	12.5	23.5	5.9	2.9	2.2
77.5°	301.3	119.5	13.9	9.5	5.9	8.8	14.7	18.3	3.7	1.5	0.0
80°	73.3	29.3	8.8	5.9	3.7	6.6	11.0	10.3	0.7	0.0	0.0
82.5°	24.2	10.3	3.7	2.9	0.7	2.2	5.1	2.9	0.0	0.0	0.0
85°	10.3	5.9	1.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	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)