

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: P323787

Luminaire Tested: **GAN-SA3A-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10515 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

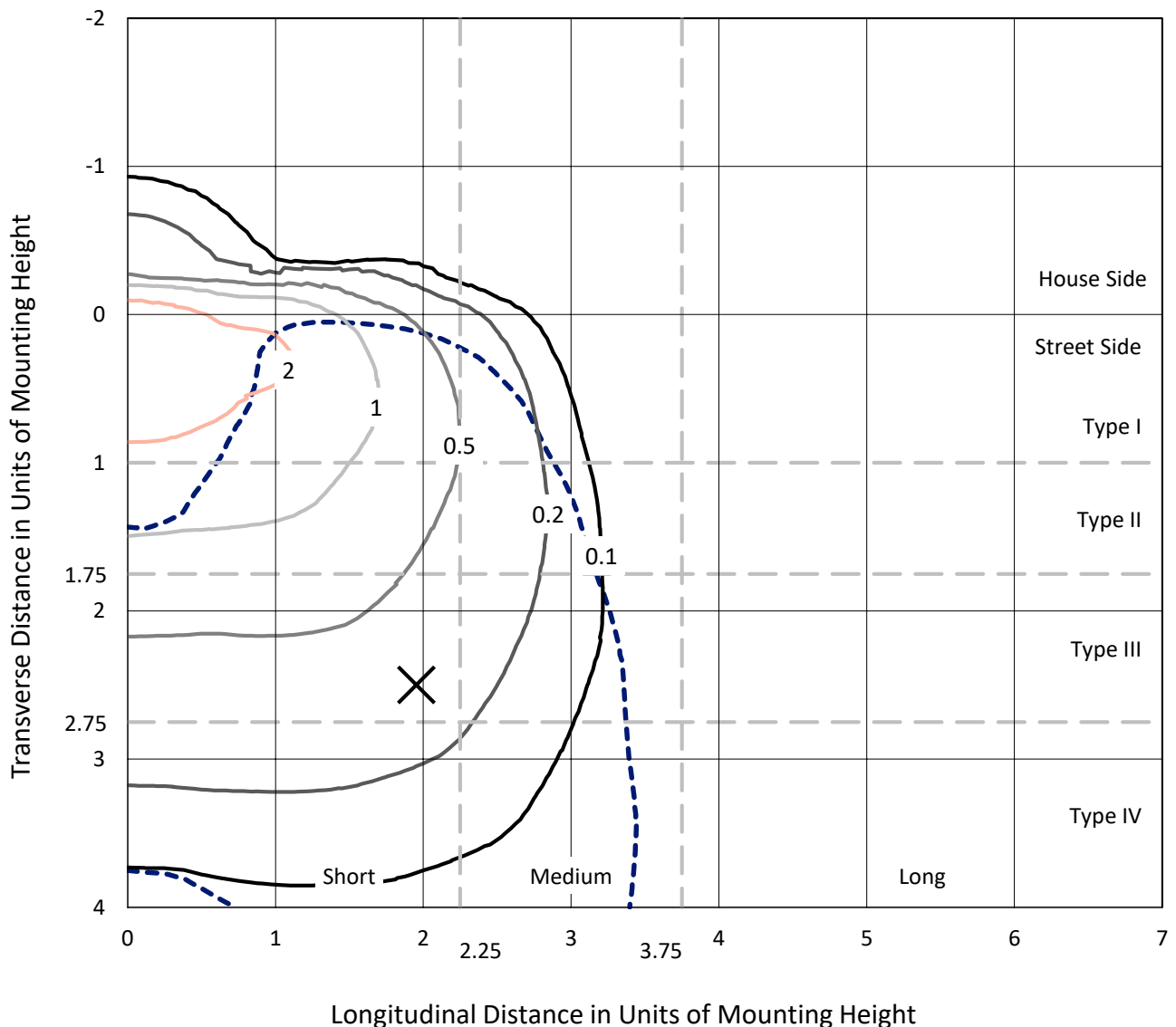
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

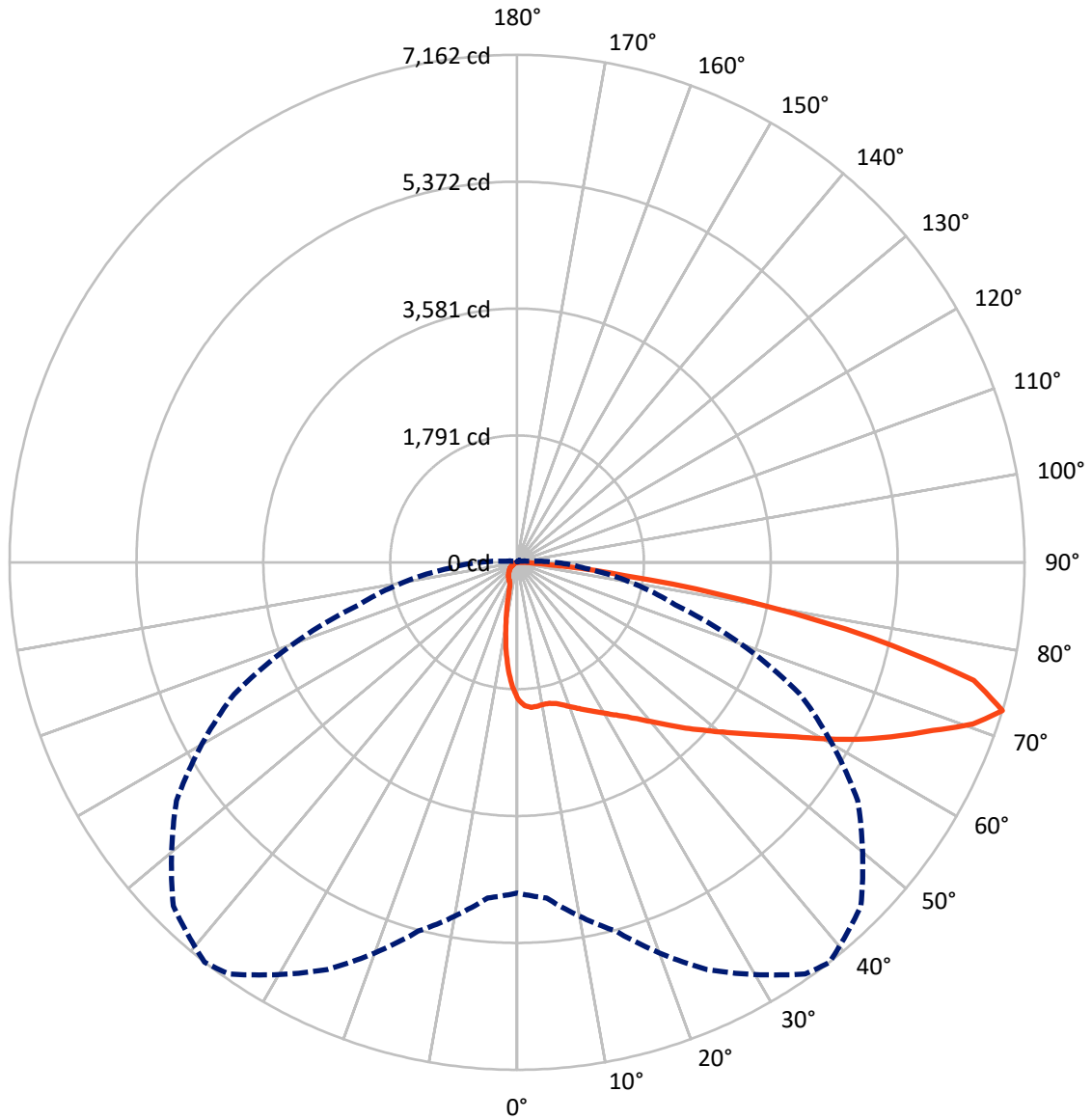
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.9	0.0	884.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9630.1	0.0	9630.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	10515.0	0.0	10515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.6
10°-20°	402.9	3.8
20°-30°	640.9	6.1
30°-40°	963.5	9.2
40°-50°	1469.8	14.0
50°-60°	2077.4	19.8
60°-70°	2605.7	24.8
70°-80°	1948.4	18.5
80°-90°	241.6	2.3
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°	10515.0	100.0
0°-180°	10515.0	100.0

Coefficient of Utilization

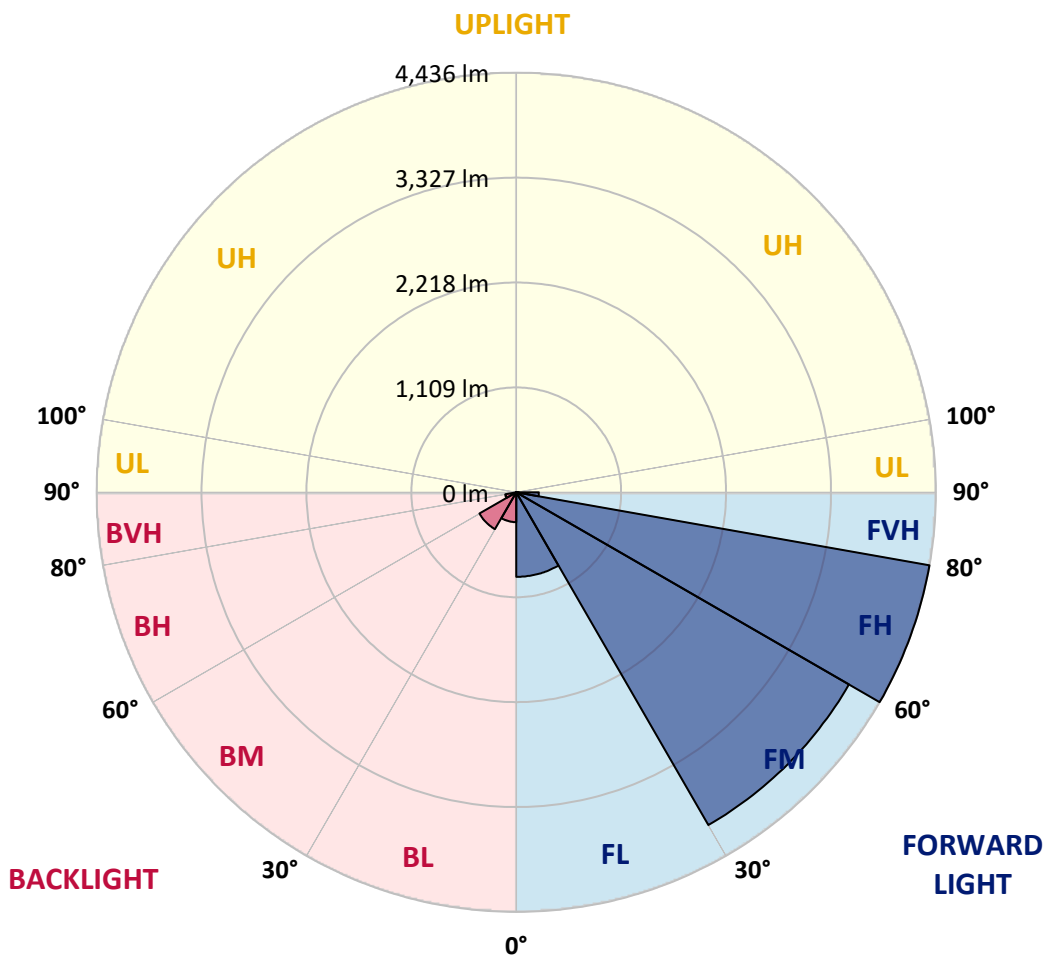


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.5	8.5			
FM (30°-60°)	4061.3	38.6			
FH (60°-80°)	4435.9	42.2			G2/5000
FVH (80°-90°)	239.3	2.3			G3/500
BL (0°-30°)	315.1	3.0	B1/500		
BM (30°-60°)	449.4	4.3	B1/1000		
BH (60°-80°)	118.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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°	38°	45°	55°	65°	75°	85°
0°	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7
2.5°	2052.5	2052.9	2048.1	2040.2	2030.2	2024.9	2016.2	2002.2	1987.4	1960.7	1931.9
5°	2094.4	2094.4	2088.3	2077.8	2061.6	2056.8	2040.2	2018.0	1987.4	1944.2	1895.7
7.5°	2090.0	2090.9	2082.6	2071.7	2055.5	2051.1	2031.1	2006.2	1968.2	1915.8	1853.8
10°	2067.3	2069.5	2062.9	2057.7	2042.8	2038.0	2019.3	1994.4	1956.4	1900.5	1829.3
12.5°	2044.2	2046.3	2048.5	2053.3	2044.2	2042.4	2027.6	2006.6	1970.4	1912.3	1831.9
15°	2029.3	2033.7	2049.4	2068.2	2070.4	2068.6	2059.0	2039.4	2002.7	1942.4	1850.7
17.5°	2029.3	2036.3	2069.0	2104.9	2117.5	2118.8	2110.5	2083.0	2039.4	1974.7	1868.2
20°	2046.3	2055.9	2107.0	2157.7	2178.7	2178.7	2162.5	2124.1	2073.0	2004.0	1880.0
22.5°	2090.0	2102.7	2166.9	2225.4	2247.7	2242.9	2221.0	2165.1	2107.9	2037.2	1894.8
25°	2176.0	2185.6	2252.5	2311.4	2325.0	2314.0	2286.5	2214.9	2152.5	2082.1	1921.9
27.5°	2287.0	2288.3	2357.3	2407.0	2398.8	2391.3	2356.8	2277.4	2216.7	2146.3	1968.6
30°	2408.8	2408.8	2469.5	2507.5	2482.2	2476.0	2441.5	2352.9	2298.7	2233.7	2035.0
32.5°	2526.7	2531.9	2581.3	2605.3	2576.9	2570.8	2537.2	2448.5	2407.9	2366.9	2138.5
35°	2640.7	2644.6	2691.3	2704.4	2677.4	2679.1	2655.1	2580.0	2564.7	2559.5	2294.4
37.5°	2751.2	2752.0	2799.6	2807.9	2794.4	2809.2	2811.4	2745.0	2773.4	2815.8	2514.0
40°	2852.0	2852.9	2900.1	2921.5	2944.6	2963.8	2980.9	2945.5	3039.4	3137.6	2775.6
42.5°	2932.8	2942.0	3001.8	3042.4	3103.6	3140.3	3186.5	3184.8	3356.0	3503.6	3091.8
45°	3004.0	3019.7	3103.1	3174.3	3279.1	3337.6	3410.1	3466.9	3712.3	3911.0	3411.9
47.5°	3097.9	3112.7	3207.9	3324.5	3464.3	3541.1	3661.2	3783.9	4104.0	4311.0	3724.5
50°	3230.2	3223.7	3317.6	3484.8	3664.3	3765.2	3936.3	4120.2	4492.7	4659.5	3908.4
52.5°	3371.3	3368.6	3438.1	3659.0	3900.1	4018.0	4244.2	4467.8	4864.3	4899.7	3992.7
55°	3545.9	3527.2	3585.7	3857.7	4180.0	4306.7	4573.0	4811.9	5160.4	5035.1	4035.0
57.5°	3728.9	3697.9	3753.8	4079.1	4495.7	4645.5	4937.2	5147.3	5357.3	5127.6	4034.6
60°	3918.0	3881.3	3947.7	4356.0	4887.9	5061.3	5332.0	5373.9	5541.2	5174.4	4004.9
62.5°	4076.1	4054.3	4152.9	4652.1	5325.9	5496.2	5630.3	5580.1	5696.2	5210.6	3935.5
65°	4243.3	4244.6	4404.0	4997.5	5791.4	5906.3	5917.6	5847.3	5825.9	5203.2	3700.5
67.5°	4469.5	4490.5	4756.5	5466.5	6244.3	6332.9	6332.0	6136.8	5920.7	4908.0	3179.6
70°	4708.9	4758.2	5162.6	6003.2	6738.6	6828.6	6782.3	6321.1	5574.8	3968.7	2250.3
72.5°	4668.7	4754.3	5388.3	6341.6	7093.6	7162.2	6861.3	5868.3	4406.2	2306.6	958.1
75°	3601.8	3701.0	4940.7	6006.3	6721.1	6659.6	5895.3	4566.5	2407.9	643.7	215.7
77.5°	1902.7	1955.5	3263.8	4575.7	5240.7	5111.9	4152.9	2533.3	734.1	159.4	96.9
80°	996.5	1008.8	1422.3	2596.1	3234.6	3235.5	2461.2	1112.7	302.6	81.7	65.1
82.5°	533.6	544.1	751.5	1199.6	1694.8	1536.3	942.4	612.2	176.0	46.3	62.4
85°	128.4	130.6	426.2	548.0	666.4	476.0	279.9	514.0	47.6	27.1	50.7
87.5°	49.3	50.2	158.1	237.1	169.9	110.0	131.0	191.7	6.1	10.5	7.9
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°	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7	1933.7
2.5°	1914.5	1903.1	1875.2	1839.8	1808.3	1785.6	1751.6	1729.3	1714.5	1714.0	1708.3
5°	1866.0	1842.8	1782.6	1711.0	1645.9	1587.4	1518.4	1463.8	1423.2	1416.6	1402.7
7.5°	1814.0	1776.0	1683.4	1571.7	1462.5	1351.6	1222.7	1142.8	1074.3	1041.5	1038.0
10°	1782.1	1728.9	1597.4	1435.8	1264.7	1084.3	915.7	799.1	714.9	690.8	672.9
12.5°	1775.6	1705.3	1531.0	1308.3	1063.8	825.3	638.9	514.9	447.6	426.2	420.5
15°	1782.1	1694.4	1475.1	1182.1	860.3	585.6	428.8	356.8	331.4	325.3	324.9
17.5°	1786.1	1681.3	1411.8	1041.9	662.9	418.4	328.4	307.4	303.5	303.1	303.9
20°	1785.6	1661.2	1336.3	885.6	493.0	328.8	297.0	292.6	291.7	292.1	291.7
22.5°	1782.6	1637.6	1253.3	724.5	372.5	293.9	283.4	280.8	280.4	280.4	280.4
25°	1788.3	1618.8	1162.0	570.3	307.0	277.7	271.2	269.0	268.6	268.6	267.7
27.5°	1808.8	1608.3	1062.0	438.9	277.3	263.3	258.1	257.6	256.3	255.9	256.8
30°	1842.0	1608.3	952.4	341.5	259.4	248.5	244.5	243.7	243.2	242.8	243.2
32.5°	1900.5	1620.6	832.8	283.9	242.4	231.9	229.3	230.6	229.3	229.3	229.3
35°	2006.2	1657.2	707.4	247.6	224.5	215.7	213.1	214.9	214.0	214.0	213.5
37.5°	2160.3	1725.4	581.2	225.8	208.7	199.6	196.1	198.7	197.8	197.8	197.4
40°	2348.1	1824.5	461.1	209.2	193.5	183.8	180.8	182.1	179.9	179.9	180.8
42.5°	2580.0	1950.3	356.3	193.0	178.2	169.0	167.3	165.9	162.0	159.8	160.3
45°	2837.6	2081.3	277.7	177.3	163.8	156.3	153.7	150.2	143.7	139.3	139.7
47.5°	3067.8	2182.2	225.8	162.0	150.7	145.0	141.1	134.5	124.9	119.7	120.1
50°	3188.7	2197.4	192.1	146.7	138.4	132.8	127.1	117.0	105.7	100.0	99.6
52.5°	3219.7	2125.8	167.3	132.8	126.2	119.7	112.2	98.7	86.0	79.9	79.0
55°	3231.1	2016.6	145.0	119.7	113.1	105.7	96.1	80.8	69.0	62.9	62.4
57.5°	3193.5	1853.8	127.5	107.9	100.0	90.8	79.0	64.6	53.3	48.5	48.5
60°	3110.1	1633.2	114.0	95.2	86.5	76.0	63.8	50.2	39.7	35.8	35.8
62.5°	2943.7	1347.6	101.3	82.1	73.8	62.9	51.5	38.0	27.9	25.8	26.2
65°	2629.8	1022.3	88.6	70.3	62.9	52.0	40.2	27.1	18.8	18.8	19.7
67.5°	2144.6	710.1	75.5	59.8	54.1	42.4	30.6	18.8	13.1	14.8	16.6
70°	1419.7	398.3	64.6	49.3	46.3	33.6	22.7	12.7	10.5	14.0	17.0
72.5°	535.8	155.0	54.1	39.7	40.2	25.8	16.2	9.6	9.6	15.3	20.1
75°	149.3	76.0	38.9	29.3	31.4	18.8	11.8	8.3	9.2	17.5	23.6
77.5°	87.8	55.9	25.3	17.0	21.4	13.1	7.9	6.6	7.9	14.8	22.7
80°	70.7	29.7	14.8	8.7	11.8	7.4	5.2	3.9	2.2	5.7	11.8
82.5°	70.7	17.9	7.0	6.1	6.1	3.9	2.6	1.7	0.4	0.0	3.1
85°	47.6	7.4	4.4	3.9	3.1	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	7.9	3.1	1.7	0.9	0.4	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)