

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: P321917

Luminaire Tested: **GAN-SA3B-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12412 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

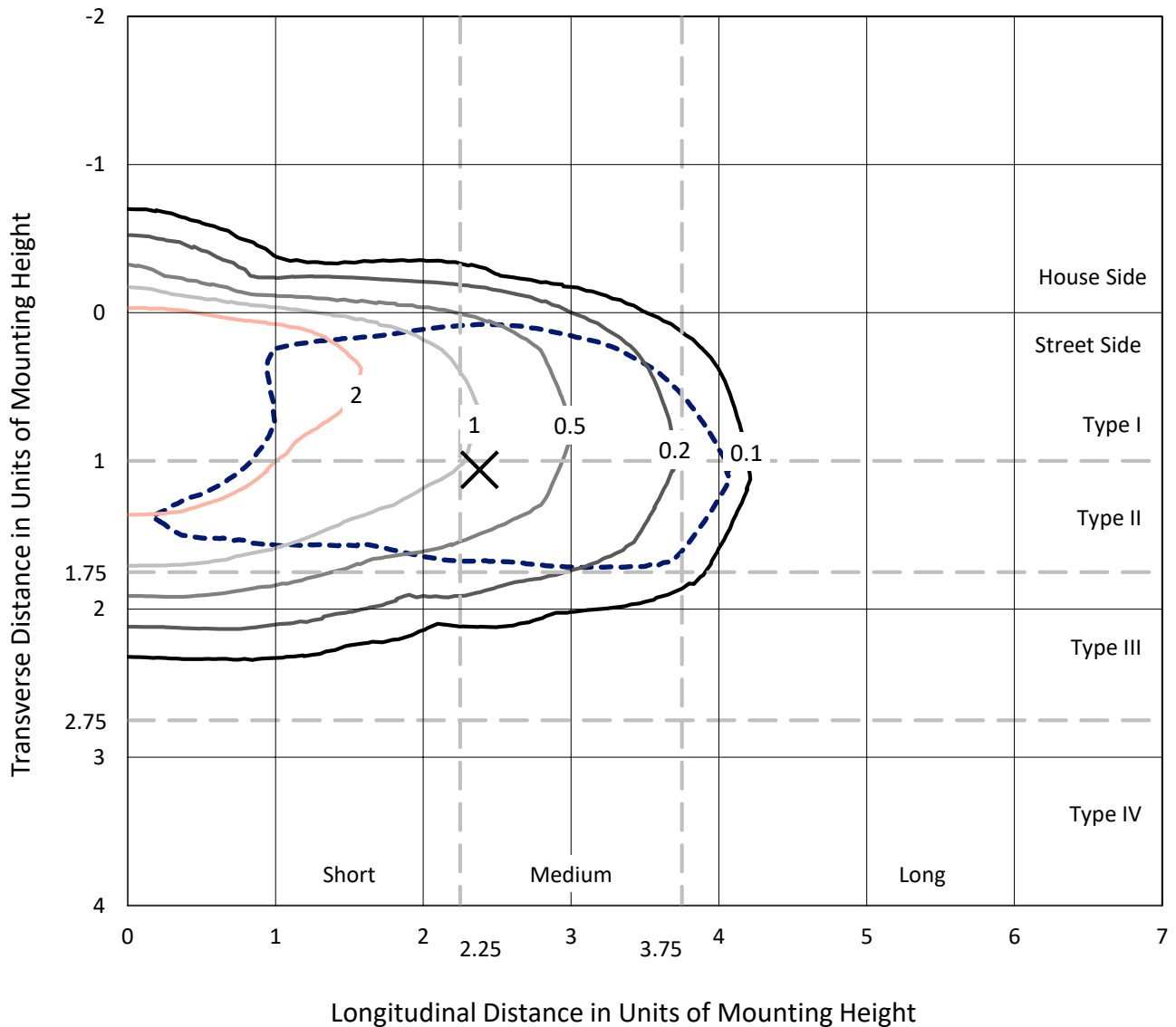
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

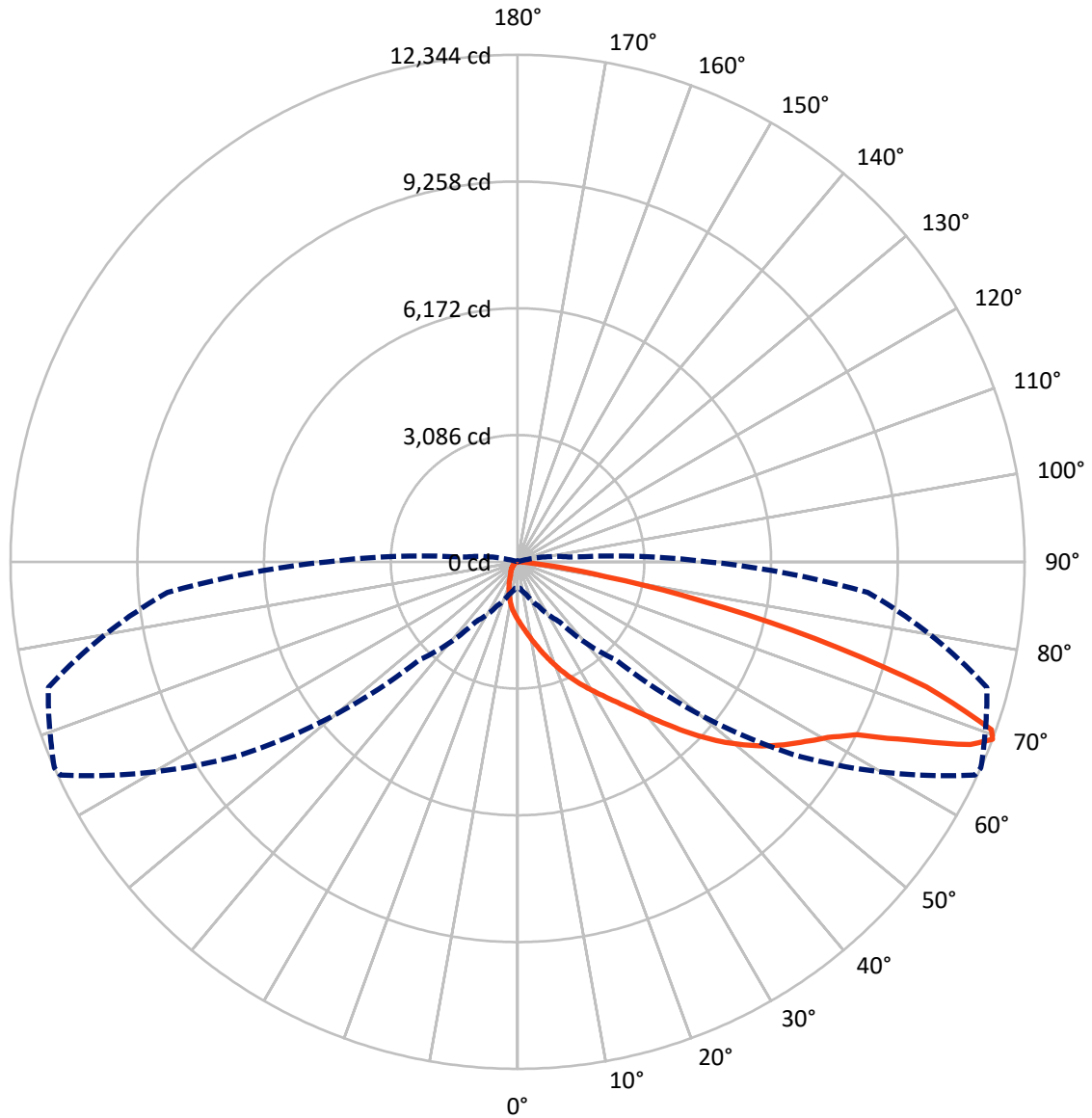
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.6	0.0	744.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11667.5	0.0	11667.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	12412.0	0.0	12412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.1
10°-20°	406.4	3.3
20°-30°	707.6	5.7
30°-40°	1241.5	10.0
40°-50°	2078.1	16.7
50°-60°	3054.7	24.6
60°-70°	3136.4	25.3
70°-80°	1548.3	12.5
80°-90°	102.4	0.8
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°	12412.0	100.0
0°-180°	12412.0	100.0

Coefficient of Utilization



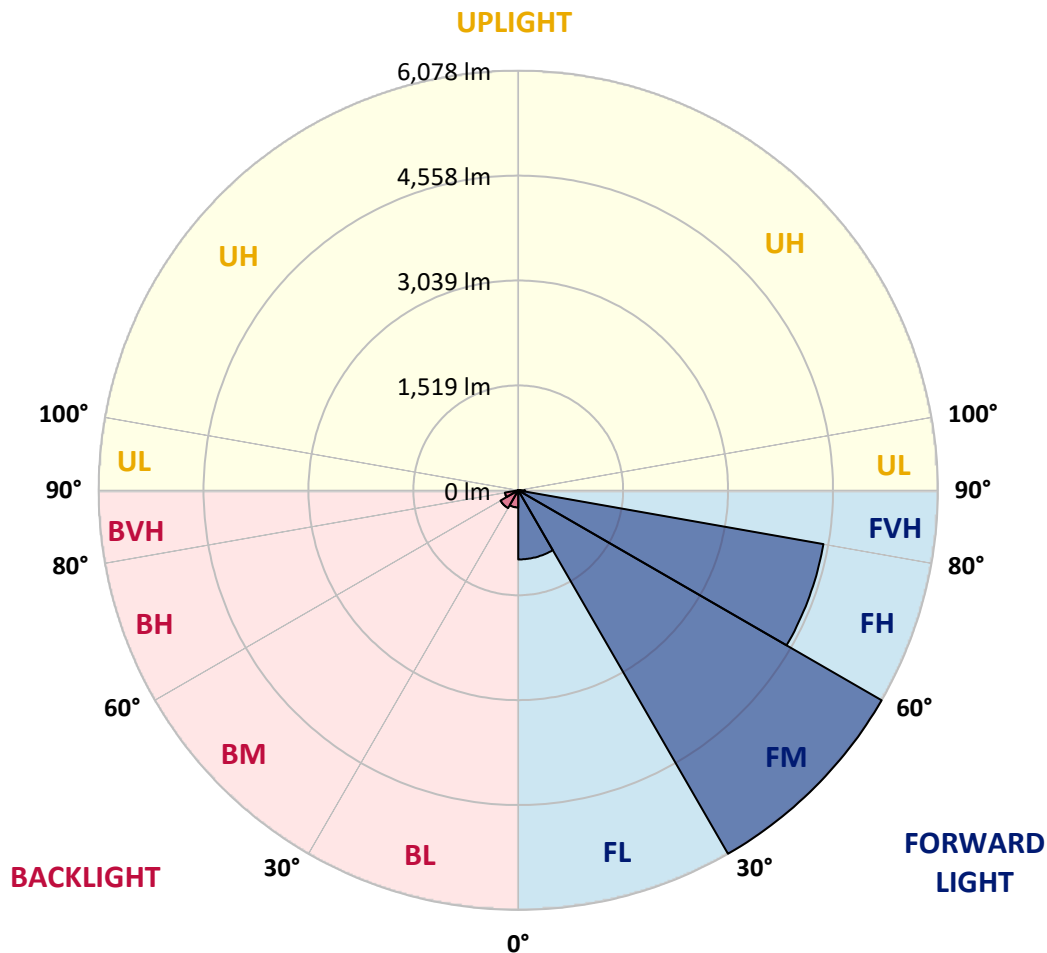
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.5	8.1			
FM (30°-60°)	6077.5	49.0			
FH (60°-80°)	4488.5	36.2			G2/5000
FVH (80°-90°)	99.9	0.8			G1/100
BL (0°-30°)	249.0	2.0	B1/500		
BM (30°-60°)	296.9	2.4	B1/1000		
BH (60°-80°)	196.2	1.6	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5
2.5°	1662.5	1655.4	1652.5	1639.5	1617.1	1600.0	1567.0	1528.7	1521.6	1484.4	1439.1
5°	1878.3	1872.4	1868.2	1850.0	1827.0	1783.9	1723.8	1652.5	1638.9	1568.2	1477.4
7.5°	2028.6	2039.2	2039.2	2027.4	1998.5	1966.1	1892.4	1795.1	1778.0	1669.6	1528.7
10°	2116.4	2129.4	2139.4	2149.4	2145.3	2132.3	2062.8	1953.1	1932.5	1788.6	1588.2
12.5°	2124.7	2137.7	2166.0	2207.8	2248.5	2278.0	2234.3	2128.2	2104.6	1926.6	1659.0
15°	2078.7	2092.3	2135.9	2217.2	2315.7	2401.8	2415.9	2322.2	2298.0	2091.1	1747.4
17.5°	1998.5	2007.4	2069.9	2182.5	2336.9	2494.9	2580.4	2530.3	2507.9	2279.1	1845.8
20°	1939.0	1945.5	2000.3	2121.1	2323.9	2553.3	2736.0	2751.4	2727.8	2480.8	1952.5
22.5°	2041.0	2052.8	2054.5	2111.7	2288.6	2582.2	2872.8	2968.9	2951.2	2694.8	2057.5
25°	2319.8	2333.4	2288.6	2253.2	2318.6	2595.1	2990.1	3191.7	3177.6	2925.3	2163.0
27.5°	2688.3	2702.4	2644.7	2539.1	2476.0	2644.1	3094.5	3418.1	3417.5	3169.3	2276.8
30°	3050.3	3064.4	3005.4	2899.9	2754.9	2782.6	3184.7	3655.1	3658.7	3421.1	2397.6
32.5°	3429.9	3447.6	3386.9	3251.3	3099.8	3022.0	3311.4	3893.3	3913.3	3712.9	2533.8
35°	3861.5	3863.8	3778.3	3636.3	3461.7	3342.1	3514.8	4160.3	4208.1	4074.3	2706.6
37.5°	4284.7	4301.8	4231.7	4007.7	3847.3	3711.7	3817.2	4494.0	4561.8	4515.8	2932.3
40°	4598.4	4634.3	4624.3	4382.6	4230.5	4133.8	4192.8	4890.8	4976.9	5029.9	3217.1
42.5°	4795.3	4822.4	4868.4	4722.8	4584.8	4600.7	4636.1	5353.0	5459.1	5615.9	3544.3
45°	5021.1	5034.0	5072.4	5008.1	4915.0	5075.3	5106.6	5873.5	5985.0	6246.1	3907.4
47.5°	5297.0	5327.6	5338.2	5279.3	5236.8	5495.1	5559.9	6346.9	6503.2	6921.1	4291.8
50°	5648.3	5656.6	5674.9	5636.5	5594.1	5855.8	5966.7	6843.9	6986.0	7598.5	4670.9
52.5°	5992.0	6021.5	6085.2	6061.0	6043.9	6163.0	6329.2	7292.0	7450.5	8163.3	5049.4
55°	6091.1	6116.4	6336.3	6486.7	6625.8	6541.5	6675.9	7693.4	7865.0	8667.9	5413.7
57.5°	5695.5	5746.8	6127.6	6519.1	7096.2	7129.8	7152.2	8105.5	8259.4	9054.7	5792.8
60°	4695.6	4705.7	5330.6	6002.1	7018.4	7643.3	7847.9	8548.3	8677.4	9414.9	6246.7
62.5°	2986.6	3088.6	3774.2	4722.2	6195.4	7569.0	8689.2	9218.0	9265.1	9847.0	6897.6
65°	1422.5	1488.6	1982.6	2917.6	4487.5	6618.1	9269.8	10429.5	10450.7	10703.6	7767.1
67.5°	787.6	819.5	1054.7	1570.5	2623.4	4680.3	9035.2	11864.4	11884.4	11578.5	8530.0
69°	616.1	643.2	828.3	1183.8	1778.6	3363.9	8176.3	12284.7	12344.3	11829.0	8557.1
70°	522.9	549.4	713.3	999.9	1430.2	2599.3	7277.8	12180.4	12243.5	11805.4	8354.9
72.5°	320.1	335.4	475.2	703.9	958.6	1307.6	4488.1	10300.9	10407.6	10829.2	7180.5
75°	215.8	224.0	297.1	485.8	685.6	673.2	2331.6	7260.7	7491.8	8423.9	5303.5
77.5°	154.5	162.1	199.3	314.2	480.5	444.5	1055.9	4512.3	4561.8	5052.3	2892.3
80°	87.8	94.9	140.9	186.9	326.0	296.5	419.7	2155.3	2180.1	2166.5	965.7
82.5°	46.0	51.9	77.2	123.2	209.3	194.0	174.5	721.6	725.1	603.1	211.6
85°	8.8	10.6	38.3	84.3	107.9	84.3	71.3	169.2	172.7	152.7	52.5
87.5°	0.0	0.6	15.3	18.9	21.2	21.8	23.0	33.0	35.4	47.8	14.1
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°	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5
2.5°	1419.0	1397.8	1357.1	1309.9	1273.4	1237.4	1209.1	1179.7	1169.0	1163.7	1163.2
5°	1433.2	1388.4	1302.3	1213.9	1141.3	1073.0	1024.0	977.4	955.6	945.6	941.5
7.5°	1456.7	1384.8	1246.3	1111.3	1006.9	921.4	853.6	802.9	777.6	767.0	762.9
10°	1484.4	1380.1	1180.8	1002.8	869.6	781.1	713.9	663.8	636.1	624.3	618.4
12.5°	1516.9	1371.8	1105.4	893.1	752.2	663.8	582.5	520.6	488.7	475.2	468.7
15°	1557.0	1363.6	1026.4	790.0	649.1	541.2	452.2	410.3	403.8	401.5	402.1
17.5°	1596.5	1350.6	940.3	688.0	540.6	422.7	377.3	374.9	376.1	376.1	376.1
20°	1631.8	1321.1	846.6	600.7	437.4	356.7	347.2	343.1	340.2	337.8	334.9
22.5°	1659.5	1281.6	756.4	514.1	357.3	326.6	311.9	298.9	288.3	281.2	277.7
25°	1678.4	1229.2	673.8	430.9	321.3	297.1	270.6	248.8	232.3	222.3	218.1
27.5°	1692.6	1172.6	600.1	360.8	296.5	262.9	228.1	202.2	185.1	176.3	172.7
30°	1702.6	1108.3	535.3	317.2	268.8	227.0	189.8	164.5	152.1	147.4	145.0
32.5°	1712.0	1037.0	474.0	296.5	242.9	194.0	159.2	139.7	132.1	126.2	124.4
35°	1735.6	971.0	415.6	274.7	216.4	165.7	136.8	122.6	115.0	111.4	110.2
37.5°	1791.6	922.0	359.6	252.3	189.8	143.3	119.7	109.7	102.6	99.0	97.9
40°	1881.8	897.3	312.5	228.1	163.9	126.2	108.5	99.0	91.4	86.1	84.9
42.5°	2014.4	900.8	279.4	204.0	143.3	112.6	97.9	86.7	78.4	73.7	72.5
45°	2175.4	926.7	256.4	180.4	126.2	102.0	86.1	74.3	66.6	62.5	61.3
47.5°	2349.9	968.6	237.6	159.2	112.6	92.0	74.3	61.9	55.4	51.9	51.3
50°	2533.8	1009.3	218.1	138.5	100.8	81.9	62.5	51.3	46.0	43.0	41.9
52.5°	2720.1	1056.4	200.4	119.7	90.8	70.2	51.9	41.9	37.7	35.4	34.2
55°	2920.6	1091.8	183.3	104.9	80.8	59.5	43.0	34.8	31.2	28.3	27.7
57.5°	3156.4	1146.6	165.7	90.8	69.0	49.5	35.4	27.7	24.8	21.8	21.2
60°	3474.7	1210.9	146.8	80.2	56.6	40.7	28.9	22.4	18.9	16.5	15.9
62.5°	3894.5	1282.2	123.2	70.2	46.0	33.0	23.0	17.7	13.6	10.6	10.6
65°	4426.8	1398.4	100.8	59.0	37.7	27.1	17.7	13.0	7.7	4.7	4.7
67.5°	4737.5	1418.4	81.4	48.3	30.7	23.0	14.7	8.8	2.4	0.6	0.0
69°	4637.9	1302.3	69.0	41.3	26.5	21.8	13.6	6.5	1.2	0.0	0.0
70°	4450.4	1190.9	60.7	36.6	24.2	20.6	13.0	4.7	1.2	0.0	0.0
72.5°	3677.5	847.8	46.0	27.1	17.7	18.3	11.8	2.9	1.2	0.0	0.0
75°	2678.8	515.3	33.0	18.9	11.2	13.6	8.3	1.2	0.6	0.0	0.0
77.5°	1490.3	242.9	20.6	10.6	7.1	8.3	4.1	0.0	0.0	0.0	0.0
80°	484.0	66.0	9.4	5.9	4.1	4.7	1.8	0.0	0.0	0.0	0.0
82.5°	89.6	18.9	5.3	2.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.5	7.7	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.4	0.6	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)