

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: P321849

Luminaire Tested: **GAN-SA5C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321849
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-SA5C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21031 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 279
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

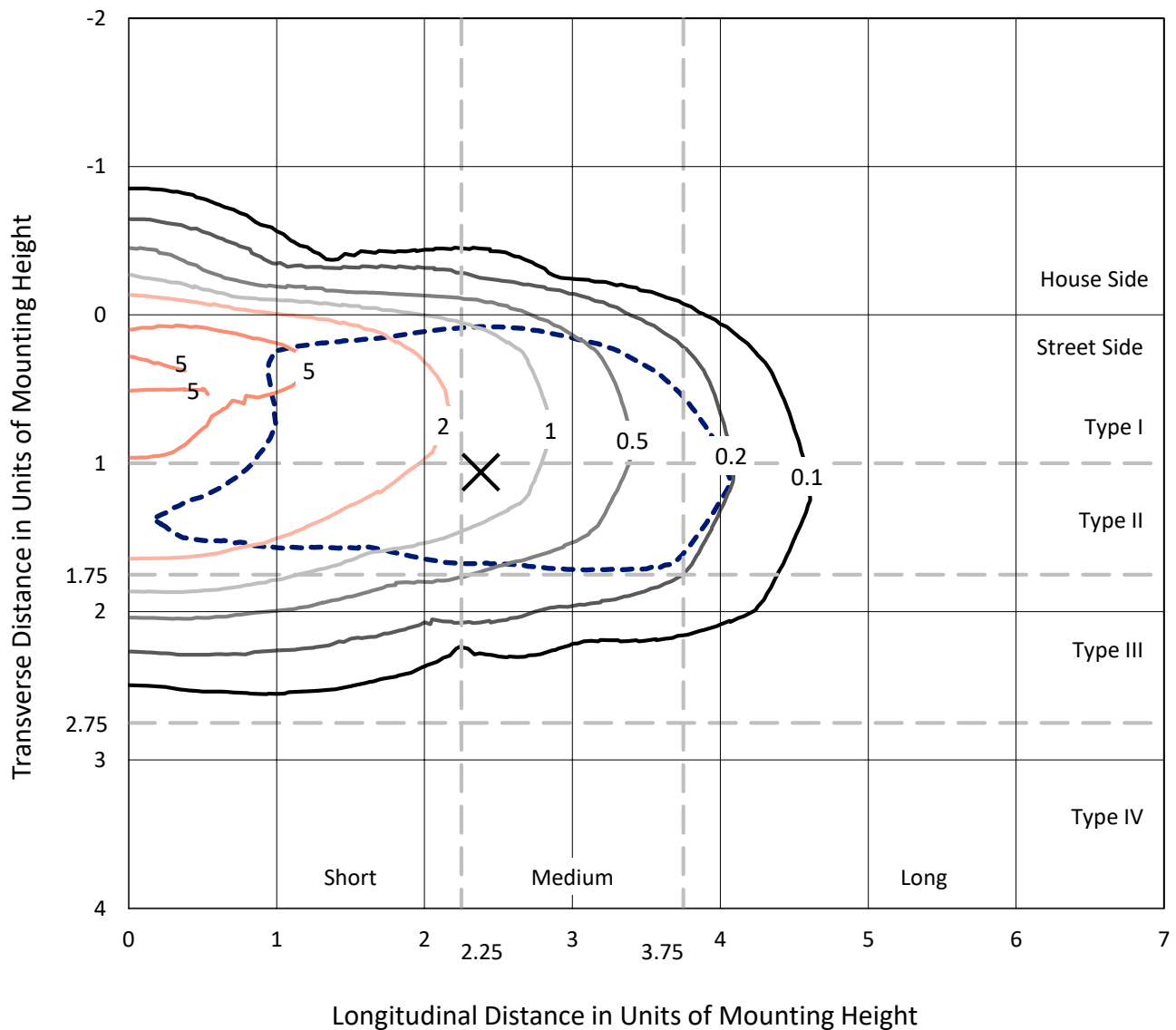


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Iso-Footcandle Lines of Horizontal Illumination

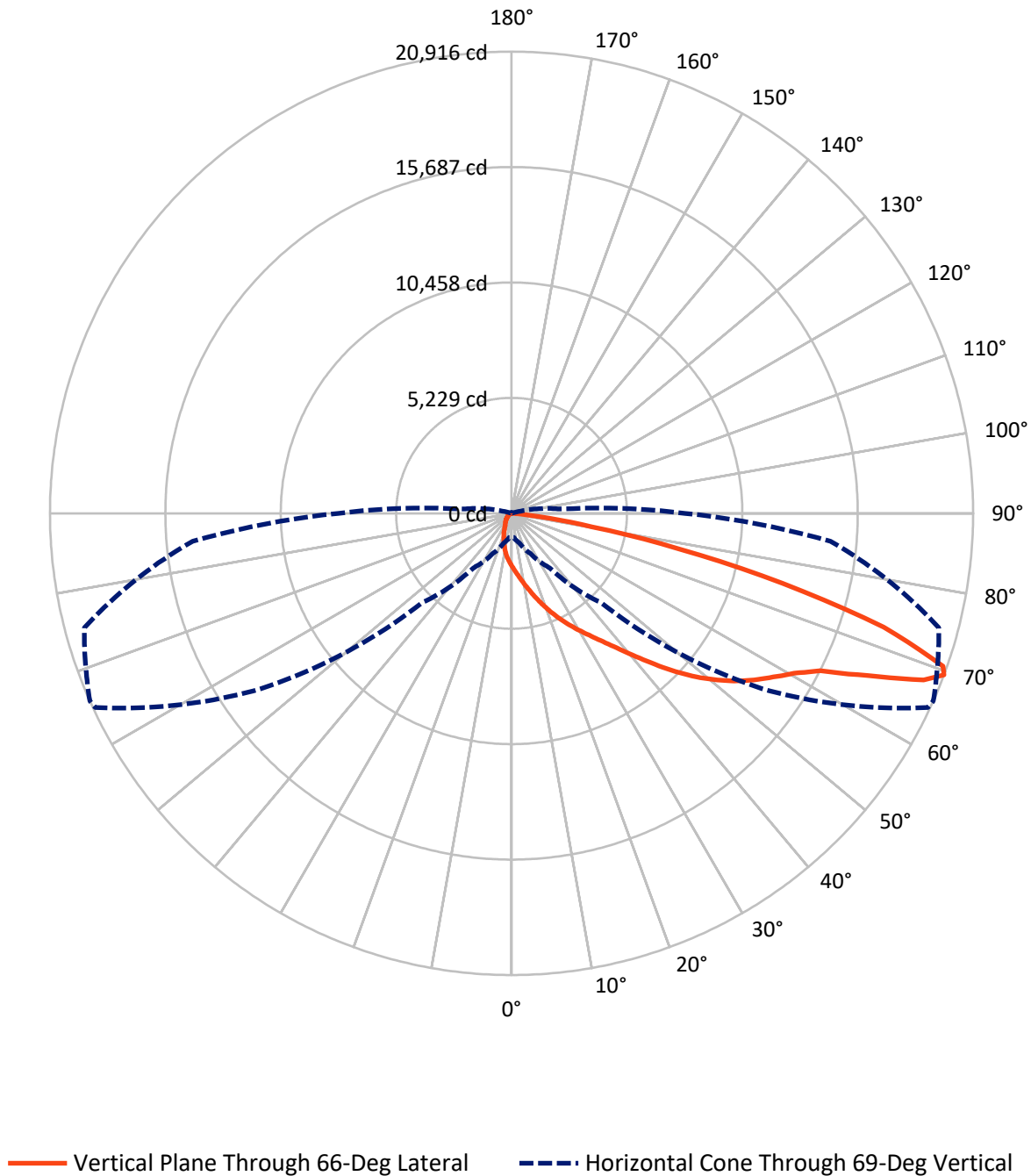
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.6	0.0	1261.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19769.4	0.0	19769.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	21031.0	0.0	21031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	688.6	3.3
20°-30°	1199.0	5.7
30°-40°	2103.7	10.0
40°-50°	3521.2	16.7
50°-60°	5175.9	24.6
60°-70°	5314.3	25.3
70°-80°	2623.5	12.5
80°-90°	173.5	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°	21031.0	100.0
0°-180°	21031.0	100.0

Coefficient of Utilization



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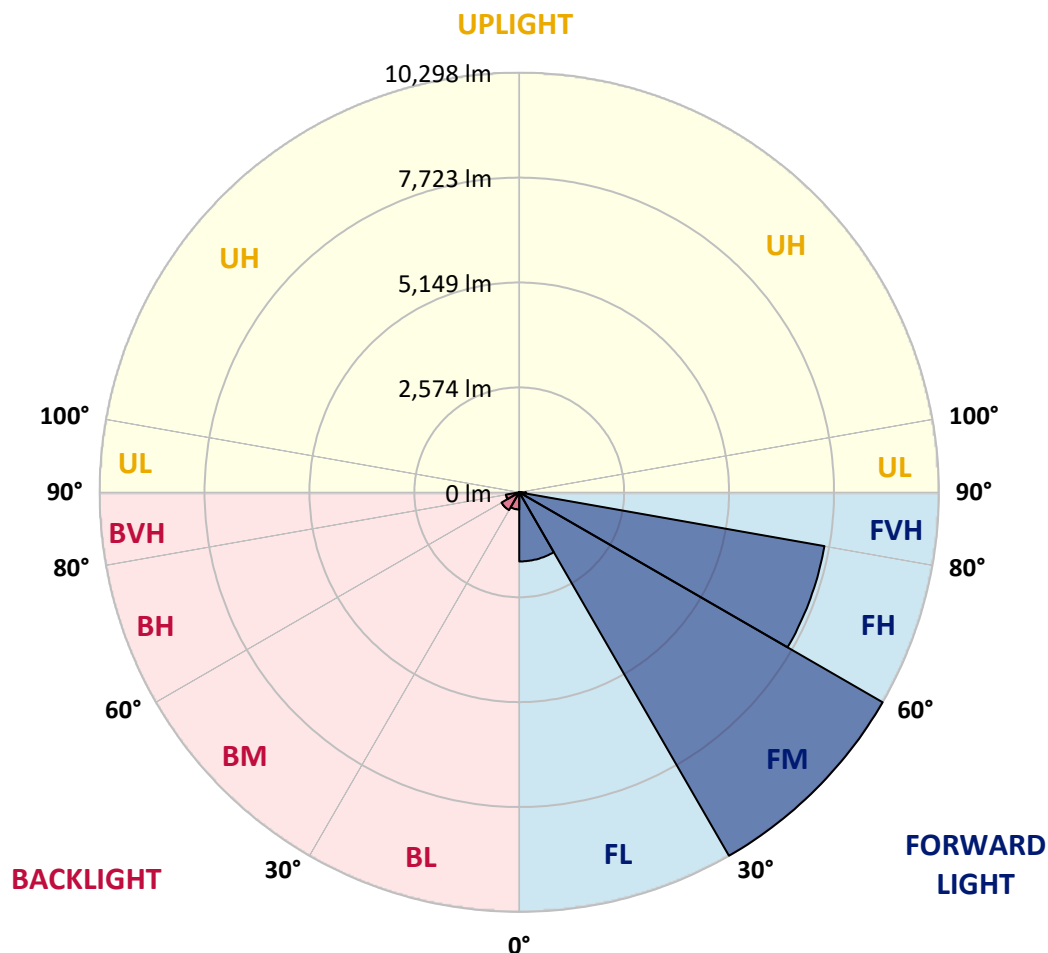
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1697.0	8.1			
FM	(30°-60°)	10297.8	49.0			
FH	(60°-80°)	7605.4	36.2			G4/12000
FVH	(80°-90°)	169.3	0.8			G2/225
BL	(0°-30°)	421.9	2.0	B1/500		
BM	(30°-60°)	503.0	2.4	B1/1000		
BH	(60°-80°)	332.5	1.6	B1/500		G1/500
BVH	(80°-90°)	4.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
2.5°	2816.9	2804.9	2800.0	2778.0	2740.0	2711.0	2655.1	2590.2	2578.2	2515.3	2438.3
5°	3182.5	3172.5	3165.6	3134.6	3095.6	3022.7	2920.8	2800.0	2777.0	2657.1	2503.3
7.5°	3437.3	3455.2	3455.2	3435.3	3386.3	3331.4	3206.5	3041.7	3012.7	2828.9	2590.2
10°	3586.1	3608.1	3625.1	3642.0	3635.0	3613.1	3495.2	3309.4	3274.4	3030.7	2691.1
12.5°	3600.1	3622.1	3670.0	3740.9	3809.9	3859.8	3785.9	3606.1	3566.1	3264.4	2810.9
15°	3522.2	3545.1	3619.1	3756.9	3923.7	4069.6	4093.5	3934.7	3893.8	3543.1	2960.8
17.5°	3386.3	3401.3	3507.2	3698.0	3959.7	4227.4	4372.2	4287.3	4249.4	3861.8	3127.6
20°	3285.4	3296.4	3389.3	3594.1	3937.7	4326.3	4636.0	4661.9	4622.0	4203.4	3308.4
22.5°	3458.2	3478.2	3481.2	3578.1	3877.8	4375.2	4867.7	5030.5	5000.6	4566.0	3486.2
25°	3930.7	3953.7	3877.8	3817.8	3928.7	4397.2	5066.5	5408.1	5384.1	4956.6	3665.0
27.5°	4555.0	4579.0	4481.1	4302.3	4195.4	4480.1	5243.3	5791.7	5790.7	5370.2	3857.8
30°	5168.4	5192.3	5092.5	4913.7	4667.9	4714.9	5396.1	6193.3	6199.3	5796.7	4062.6
32.5°	5811.7	5841.6	5738.8	5509.0	5252.3	5120.4	5610.9	6596.8	6630.8	6291.2	4293.3
35°	6542.9	6546.9	6402.0	6161.3	5865.6	5662.8	5955.5	7049.3	7130.2	6903.5	4586.0
37.5°	7260.1	7289.1	7170.2	6790.6	6518.9	6289.2	6468.0	7614.7	7729.6	7651.7	4968.6
40°	7791.5	7852.5	7835.5	7425.9	7168.2	7004.4	7104.3	8287.0	8432.8	8522.7	5451.1
42.5°	8125.2	8171.1	8249.0	8002.3	7768.5	7795.5	7855.5	9070.1	9249.9	9515.6	6005.5
45°	8507.7	8529.7	8594.6	8485.8	8327.9	8599.6	8652.6	9952.2	10141.0	10583.5	6620.8
47.5°	8975.2	9027.2	9045.2	8945.3	8873.3	9310.9	9420.7	10754.3	11019.0	11727.2	7272.1
50°	9570.6	9584.6	9615.5	9550.6	9478.7	9922.2	10110.0	11596.4	11837.1	12875.0	7914.4
52.5°	10153.0	10202.9	10310.8	10269.8	10240.9	10442.6	10724.3	12355.6	12624.3	13831.9	8555.7
55°	10320.8	10363.7	10736.3	10991.0	11226.8	11083.9	11311.7	13035.8	13326.5	14687.0	9173.0
57.5°	9650.5	9737.4	10382.7	11046.0	12023.9	12080.9	12118.8	13734.1	13994.8	15342.3	9815.3
60°	7956.3	7973.3	9032.2	10169.9	11892.1	12950.9	13297.5	14484.2	14703.0	15952.6	10584.5
62.5°	5060.5	5233.3	6395.0	8001.3	10497.6	12825.0	14723.0	15619.0	15698.9	16684.8	11687.3
65°	2410.4	2522.3	3359.3	4943.6	7603.7	11213.8	15706.9	17671.8	17707.7	18136.3	13160.7
67.5°	1334.5	1388.5	1787.1	2661.1	4445.2	7930.4	15309.3	20103.1	20137.1	19618.6	14453.3
69°	1043.9	1089.8	1403.5	2005.8	3013.7	5699.8	13853.9	20815.3	20916.2	20043.2	14499.2
70°	886.0	931.0	1208.7	1694.2	2423.4	4404.2	12331.6	20638.5	20745.4	20003.2	14156.6
72.5°	542.4	568.4	805.1	1192.7	1624.2	2215.6	7604.7	17454.0	17634.8	18349.0	12166.8
75°	365.6	379.6	503.5	823.1	1161.7	1140.8	3950.7	12302.6	12694.2	14273.5	8986.2
77.5°	261.7	274.7	337.6	532.4	814.1	753.2	1789.1	7645.7	7729.6	8560.7	4900.7
80°	148.8	160.8	238.7	316.7	552.4	502.5	711.2	3652.0	3694.0	3671.0	1636.2
82.5°	77.9	87.9	130.9	208.8	354.6	328.6	295.7	1222.7	1228.7	1021.9	358.6
85°	15.0	18.0	64.9	142.8	182.8	142.8	120.9	286.7	292.7	258.7	88.9
87.5°	0.0	1.0	26.0	32.0	36.0	37.0	39.0	55.9	59.9	80.9	24.0
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°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
2.5°	2404.4	2368.4	2299.5	2219.6	2157.7	2096.7	2048.8	1998.8	1980.8	1971.9	1970.9
5°	2428.4	2352.4	2206.6	2056.8	1933.9	1818.0	1735.1	1656.2	1619.2	1602.3	1595.3
7.5°	2468.3	2346.4	2111.7	1883.0	1706.1	1561.3	1446.4	1360.5	1317.6	1299.6	1292.6
10°	2515.3	2338.5	2000.8	1699.2	1473.4	1323.6	1209.7	1124.8	1077.8	1057.8	1047.9
12.5°	2570.2	2324.5	1873.0	1513.4	1274.6	1124.8	986.9	882.0	828.1	805.1	794.1
15°	2638.1	2310.5	1739.1	1338.5	1099.8	917.0	766.2	695.2	684.3	680.3	681.3
17.5°	2705.1	2288.5	1593.3	1165.7	916.0	716.2	639.3	635.3	637.3	637.3	637.3
20°	2765.0	2238.6	1434.4	1017.9	741.2	604.3	588.4	581.4	576.4	572.4	567.4
22.5°	2811.9	2171.6	1281.6	871.1	605.3	553.4	528.4	506.4	488.5	476.5	470.5
25°	2843.9	2082.7	1141.8	730.2	544.4	503.5	458.5	421.5	393.6	376.6	369.6
27.5°	2867.9	1986.8	1016.9	611.3	502.5	445.5	386.6	342.6	313.7	298.7	292.7
30°	2884.9	1878.0	907.0	537.4	455.5	384.6	321.6	278.7	257.7	249.7	245.7
32.5°	2900.8	1757.1	803.1	502.5	411.6	328.6	269.7	236.7	223.8	213.8	210.8
35°	2940.8	1645.2	704.2	465.5	366.6	280.7	231.7	207.8	194.8	188.8	186.8
37.5°	3035.7	1562.3	609.3	427.5	321.6	242.7	202.8	185.8	173.8	167.8	165.8
40°	3188.5	1520.3	529.4	386.6	277.7	213.8	183.8	167.8	154.8	145.8	143.8
42.5°	3413.3	1526.3	473.5	345.6	242.7	190.8	165.8	146.8	132.9	124.9	122.9
45°	3686.0	1570.3	434.5	305.7	213.8	172.8	145.8	125.9	112.9	105.9	103.9
47.5°	3981.7	1641.2	402.6	269.7	190.8	155.8	125.9	104.9	93.9	87.9	86.9
50°	4293.3	1710.1	369.6	234.7	170.8	138.8	105.9	86.9	77.9	72.9	70.9
52.5°	4609.0	1790.1	339.6	202.8	153.8	118.9	87.9	70.9	63.9	59.9	57.9
55°	4948.6	1850.0	310.7	177.8	136.9	100.9	72.9	58.9	52.9	47.9	46.9
57.5°	5348.2	1942.9	280.7	153.8	116.9	83.9	59.9	46.9	42.0	37.0	36.0
60°	5887.6	2051.8	248.7	135.9	95.9	68.9	48.9	38.0	32.0	28.0	27.0
62.5°	6598.8	2172.6	208.8	118.9	77.9	55.9	39.0	30.0	23.0	18.0	18.0
65°	7500.8	2369.4	170.8	99.9	63.9	45.9	30.0	22.0	13.0	8.0	8.0
67.5°	8027.3	2403.4	137.8	81.9	51.9	39.0	25.0	15.0	4.0	1.0	0.0
69°	7858.4	2206.6	116.9	69.9	45.0	37.0	23.0	11.0	2.0	0.0	0.0
70°	7540.8	2017.8	102.9	61.9	41.0	35.0	22.0	8.0	2.0	0.0	0.0
72.5°	6231.2	1436.4	77.9	45.9	30.0	31.0	20.0	5.0	2.0	0.0	0.0
75°	4539.1	873.0	55.9	32.0	19.0	23.0	14.0	2.0	1.0	0.0	0.0
77.5°	2525.3	411.6	35.0	18.0	12.0	14.0	7.0	0.0	0.0	0.0	0.0
80°	820.1	111.9	16.0	10.0	7.0	8.0	3.0	0.0	0.0	0.0	0.0
82.5°	151.8	32.0	9.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	33.0	13.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.0	1.0	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)