

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: P322034

Luminaire Tested: **GAN-SA0A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322034
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-SA0A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA 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: 24122 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 323
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

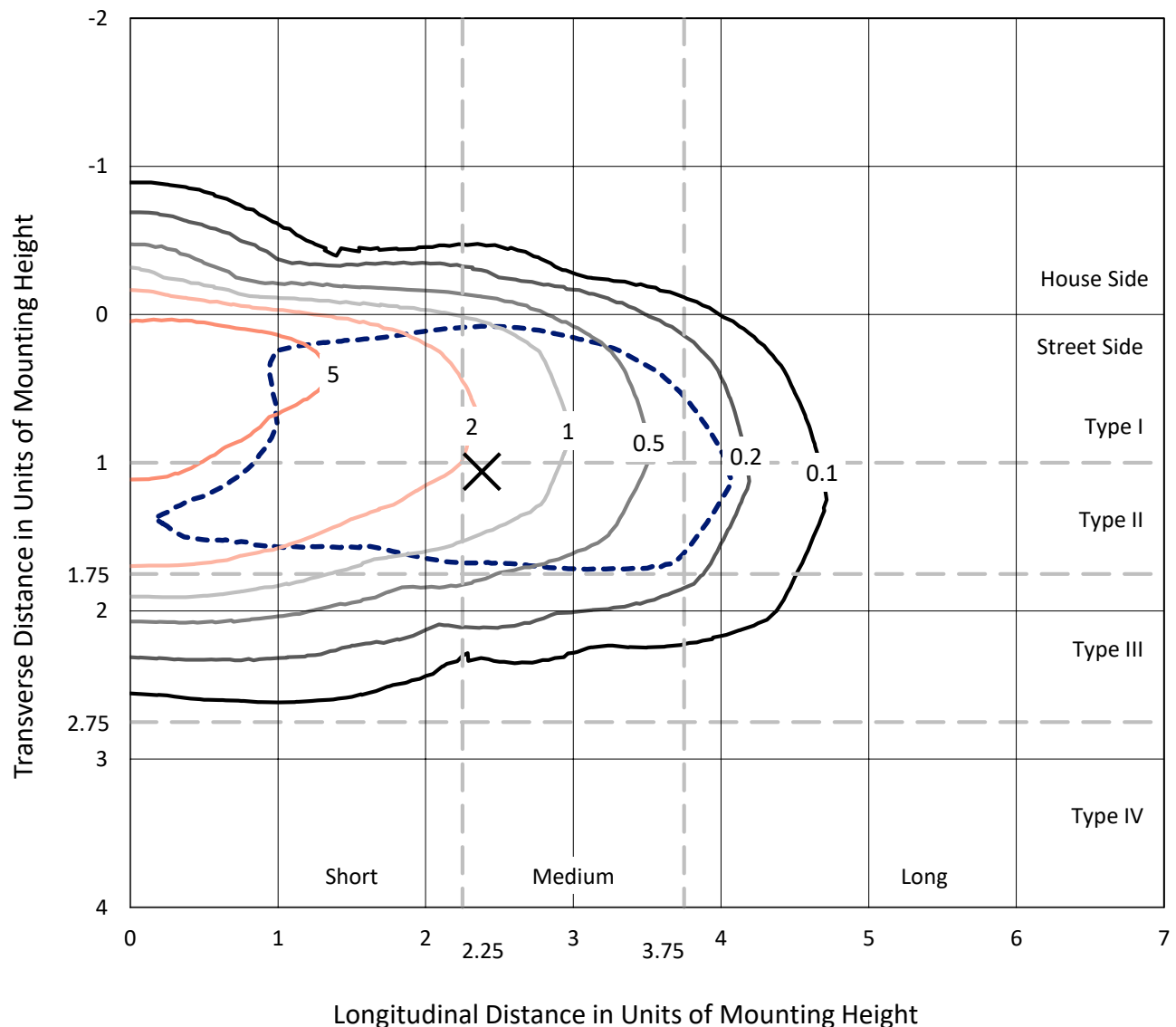


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Iso-Footcandle Lines of Horizontal Illumination

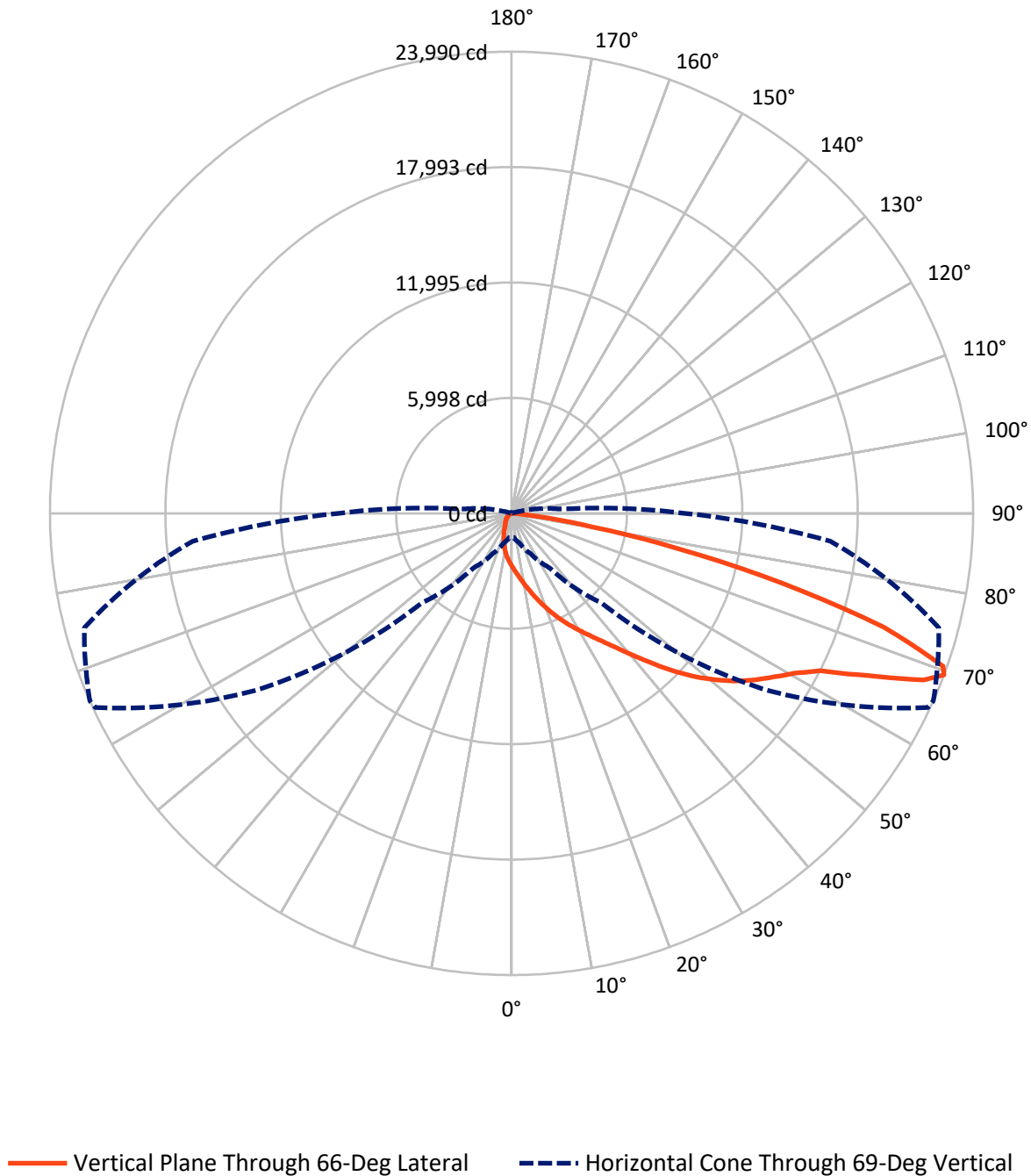
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1447.0	0.0	1447.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22675.0	0.0	22675.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	24122.0	0.0	24122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.1
10°-20°	789.7	3.3
20°-30°	1375.2	5.7
30°-40°	2412.9	10.0
40°-50°	4038.8	16.7
50°-60°	5936.6	24.6
60°-70°	6095.4	25.3
70°-80°	3009.1	12.5
80°-90°	199.0	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°	24122.0	100.0
0°-180°	24122.0	100.0

Coefficient of Utilization



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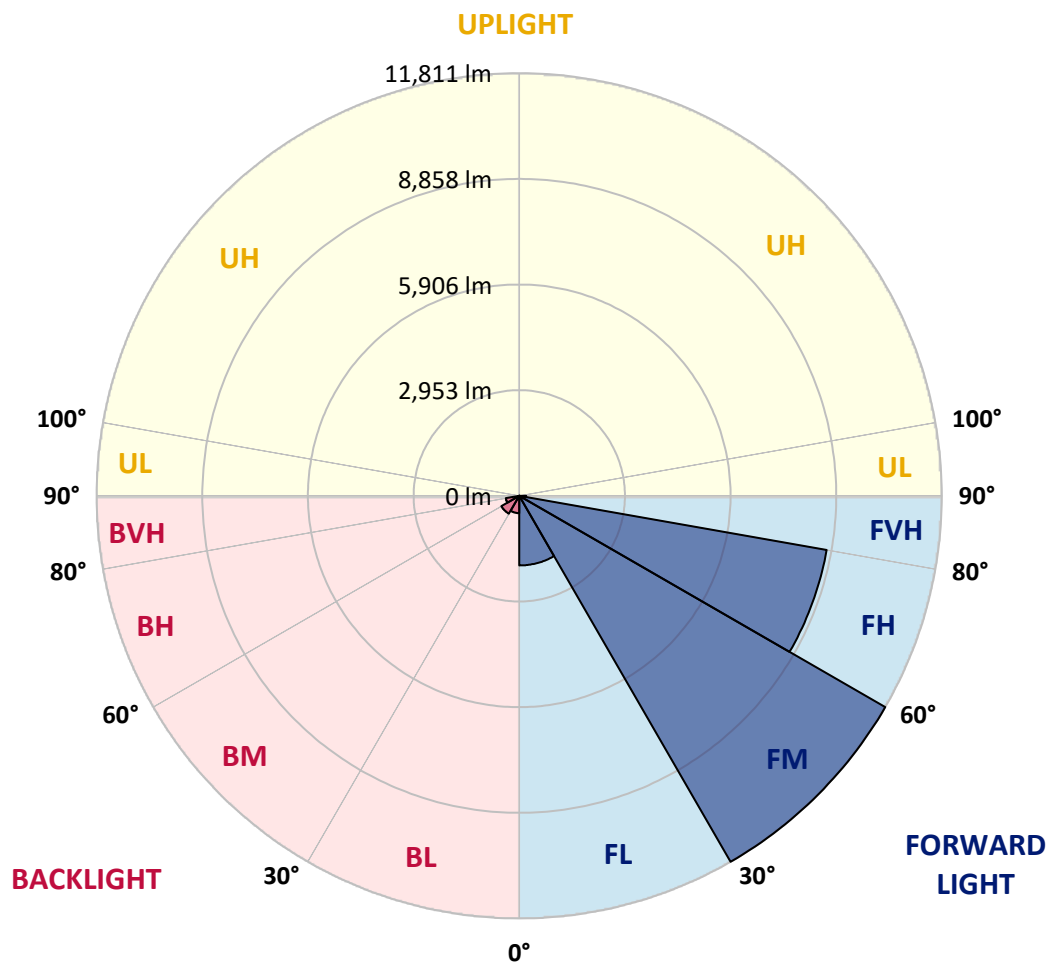
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.4	8.1			
FM	(30°-60°)	11811.3	49.0			
FH	(60°-80°)	8723.2	36.2			G4/12000
FVH	(80°-90°)	194.2	0.8			G2/225
BL	(0°-30°)	483.9	2.0	B1/500		
BM	(30°-60°)	576.9	2.4	B1/1000		
BH	(60°-80°)	381.3	1.6	B1/500		G1/500
BVH	(80°-90°)	4.8	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°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	3230.9	3217.2	3211.5	3186.3	3142.7	3109.5	3045.3	2970.9	2957.1	2884.9	2796.7
5°	3650.3	3638.8	3630.8	3595.3	3550.6	3467.0	3350.1	3211.5	3185.1	3047.6	2871.2
7.5°	3942.4	3963.1	3963.1	3940.2	3884.0	3821.0	3677.8	3488.7	3455.5	3244.7	2970.9
10°	4113.2	4138.4	4157.8	4177.3	4169.3	4144.1	4008.9	3795.8	3755.7	3476.1	3086.6
12.5°	4129.2	4154.4	4209.4	4290.7	4369.8	4427.1	4342.3	4136.1	4090.2	3744.2	3224.1
15°	4039.8	4066.2	4151.0	4309.1	4500.4	4667.7	4695.2	4513.0	4466.0	4063.9	3395.9
17.5°	3884.0	3901.2	4022.6	4241.5	4541.7	4848.7	5014.8	4917.5	4873.9	4429.4	3587.3
20°	3768.3	3780.9	3887.5	4122.3	4516.5	4962.1	5317.3	5347.1	5301.3	4821.2	3794.6
22.5°	3966.5	3989.4	3992.9	4104.0	4447.7	5018.3	5583.1	5769.9	5735.5	5237.1	3998.6
25°	4508.4	4534.8	4447.7	4379.0	4506.1	5043.5	5811.1	6203.0	6175.5	5685.1	4203.7
27.5°	5224.5	5252.0	5139.7	4934.6	4812.1	5138.6	6013.9	6642.9	6641.8	6159.4	4424.8
30°	5928.0	5955.5	5840.9	5635.8	5354.0	5407.8	6189.2	7103.5	7110.4	6648.7	4659.7
32.5°	6665.8	6700.2	6582.2	6318.7	6024.2	5873.0	6435.5	7566.4	7605.3	7215.8	4924.3
35°	7504.5	7509.1	7343.0	7066.8	6727.7	6495.1	6830.8	8085.4	8178.2	7918.1	5260.0
37.5°	8327.1	8360.4	8224.0	7788.6	7477.0	7213.5	7418.6	8733.9	8865.6	8776.3	5698.8
40°	8936.7	9006.6	8987.1	8517.3	8221.7	8033.8	8148.4	9504.9	9672.2	9775.3	6252.2
42.5°	9319.3	9372.0	9461.4	9178.4	8910.3	8941.3	9010.0	10403.2	10609.4	10914.2	6888.1
45°	9758.2	9783.4	9857.8	9732.9	9551.9	9863.6	9924.3	11414.9	11631.4	12139.0	7593.9
47.5°	10294.4	10353.9	10374.6	10260.0	10177.5	10679.3	10805.3	12334.9	12638.5	13450.8	8340.9
50°	10977.2	10993.2	11028.8	10954.3	10871.8	11380.5	11595.9	13300.7	13576.9	14767.3	9077.6
52.5°	11645.2	11702.5	11826.2	11779.2	11746.0	11977.4	12300.5	14171.5	14479.7	15864.9	9813.1
55°	11837.6	11886.9	12314.3	12606.4	12876.8	12713.0	12974.2	14951.7	15285.1	16845.6	10521.2
57.5°	11068.9	11168.5	11908.7	12669.4	13791.1	13856.4	13900.0	15752.6	16051.6	17597.2	11257.9
60°	9125.7	9145.2	10359.7	11664.6	13639.9	14854.3	15251.9	16613.0	16864.0	18297.3	12140.1
62.5°	5804.3	6002.5	7334.9	9177.3	12040.4	14710.0	16886.9	17914.6	18006.2	19137.1	13405.0
65°	2764.6	2893.0	3853.1	5670.2	8721.3	12861.9	18015.4	20269.1	20310.3	20801.8	15094.9
67.5°	1530.7	1592.6	2049.7	3052.2	5098.5	9095.9	17559.4	23057.7	23096.7	22502.1	16577.5
69°	1197.3	1250.0	1609.7	2300.6	3456.7	6537.5	15890.1	23874.7	23990.4	22989.0	16630.2
70°	1016.3	1067.8	1386.3	1943.2	2779.5	5051.5	14144.0	23671.9	23794.5	22943.2	16237.2
72.5°	622.1	651.9	923.5	1368.0	1863.0	2541.2	8722.4	20019.3	20226.7	21045.9	13955.0
75°	419.3	435.4	577.4	944.1	1332.5	1308.4	4531.3	14110.8	14559.9	16371.3	10307.0
77.5°	300.2	315.1	387.3	610.7	933.8	863.9	2052.0	8769.4	8865.6	9818.9	5620.9
80°	170.7	184.5	273.8	363.2	633.6	576.3	815.8	4188.8	4236.9	4210.5	1876.7
82.5°	89.4	100.8	150.1	239.5	406.7	376.9	339.1	1402.4	1409.2	1172.1	411.3
85°	17.2	20.6	74.5	163.8	209.7	163.8	138.6	328.8	335.7	296.7	102.0
87.5°	0.0	1.1	29.8	36.7	41.2	42.4	44.7	64.2	68.7	92.8	27.5
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°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	2757.8	2716.5	2637.5	2545.8	2474.8	2404.9	2349.9	2292.6	2272.0	2261.7	2260.5
5°	2785.3	2698.2	2530.9	2359.1	2218.1	2085.2	1990.1	1899.6	1857.2	1837.7	1829.7
7.5°	2831.1	2691.3	2422.1	2159.7	1956.9	1790.8	1659.0	1560.5	1511.2	1490.6	1482.6
10°	2884.9	2682.1	2294.9	1948.9	1689.9	1518.1	1387.5	1290.1	1236.2	1213.3	1201.9
12.5°	2948.0	2666.1	2148.2	1735.8	1461.9	1290.1	1132.0	1011.7	949.8	923.5	910.9
15°	3025.9	2650.1	1994.7	1535.3	1261.4	1051.8	878.8	797.4	784.8	780.2	781.4
17.5°	3102.6	2624.9	1827.4	1337.1	1050.6	821.5	733.3	728.7	731.0	731.0	731.0
20°	3171.4	2567.6	1645.3	1167.5	850.1	693.2	674.8	666.8	661.1	656.5	650.8
22.5°	3225.2	2490.8	1470.0	999.1	694.3	634.7	606.1	580.9	560.3	546.5	539.6
25°	3261.9	2388.8	1309.6	837.5	624.4	577.4	525.9	483.5	451.4	431.9	423.9
27.5°	3289.4	2278.9	1166.3	701.2	576.3	511.0	443.4	393.0	359.8	342.6	335.7
30°	3308.9	2154.0	1040.3	616.4	522.5	441.1	368.9	319.7	295.6	286.4	281.8
32.5°	3327.2	2015.3	921.2	576.3	472.0	376.9	309.3	271.5	256.6	245.2	241.7
35°	3373.0	1887.0	807.7	533.9	420.5	321.9	265.8	238.3	223.4	216.5	214.3
37.5°	3481.9	1791.9	698.9	490.4	368.9	278.4	232.6	213.1	199.4	192.5	190.2
40°	3657.2	1743.8	607.2	443.4	318.5	245.2	210.8	192.5	177.6	167.3	165.0
42.5°	3914.9	1750.7	543.1	396.4	278.4	218.8	190.2	168.4	152.4	143.2	140.9
45°	4227.7	1801.1	498.4	350.6	245.2	198.2	167.3	144.4	129.5	121.4	119.2
47.5°	4566.9	1882.4	461.7	309.3	218.8	178.7	144.4	120.3	107.7	100.8	99.7
50°	4924.3	1961.5	423.9	269.2	195.9	159.3	121.4	99.7	89.4	83.6	81.3
52.5°	5286.4	2053.1	389.5	232.6	176.4	136.3	100.8	81.3	73.3	68.7	66.5
55°	5675.9	2121.9	356.3	203.9	157.0	115.7	83.6	67.6	60.7	55.0	53.8
57.5°	6134.2	2228.4	321.9	176.4	134.1	96.2	68.7	53.8	48.1	42.4	41.2
60°	6752.9	2353.3	285.3	155.8	110.0	79.1	56.1	43.5	36.7	32.1	30.9
62.5°	7568.7	2492.0	239.5	136.3	89.4	64.2	44.7	34.4	26.4	20.6	20.6
65°	8603.3	2717.7	195.9	114.6	73.3	52.7	34.4	25.2	14.9	9.2	9.2
67.5°	9207.1	2756.6	158.1	93.9	59.6	44.7	28.6	17.2	4.6	1.1	0.0
69°	9013.4	2530.9	134.1	80.2	51.6	42.4	26.4	12.6	2.3	0.0	0.0
70°	8649.1	2314.4	118.0	71.0	47.0	40.1	25.2	9.2	2.3	0.0	0.0
72.5°	7147.0	1647.6	89.4	52.7	34.4	35.5	22.9	5.7	2.3	0.0	0.0
75°	5206.2	1001.4	64.2	36.7	21.8	26.4	16.0	2.3	1.1	0.0	0.0
77.5°	2896.4	472.0	40.1	20.6	13.7	16.0	8.0	0.0	0.0	0.0	0.0
80°	940.6	128.3	18.3	11.5	8.0	9.2	3.4	0.0	0.0	0.0	0.0
82.5°	174.2	36.7	10.3	5.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	37.8	14.9	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	4.6	1.1	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)