

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: P322072

Luminaire Tested: **GAN-SA8A-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322072
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-SA8A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 21114 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

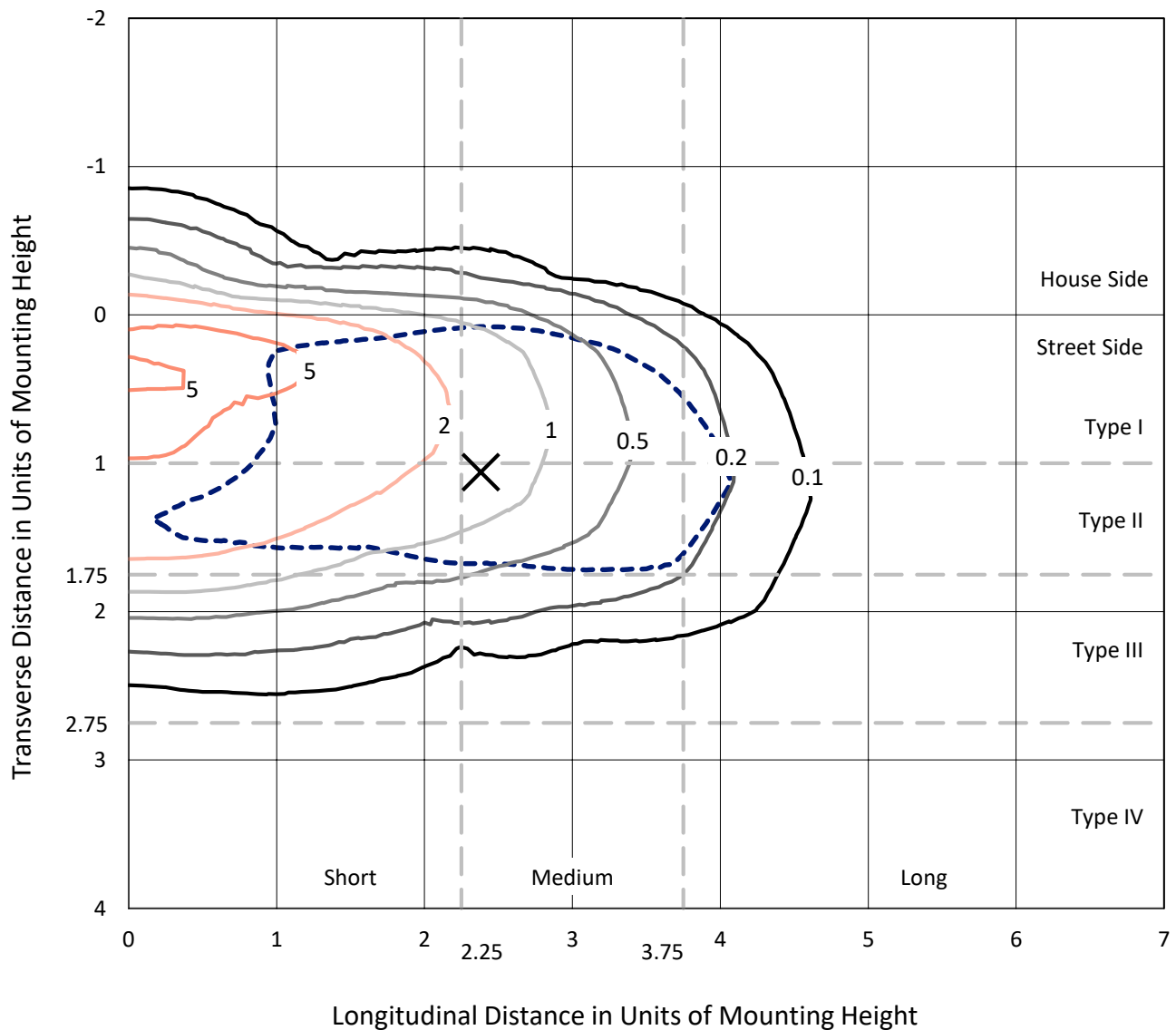


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Iso-Footcandle Lines of Horizontal Illumination

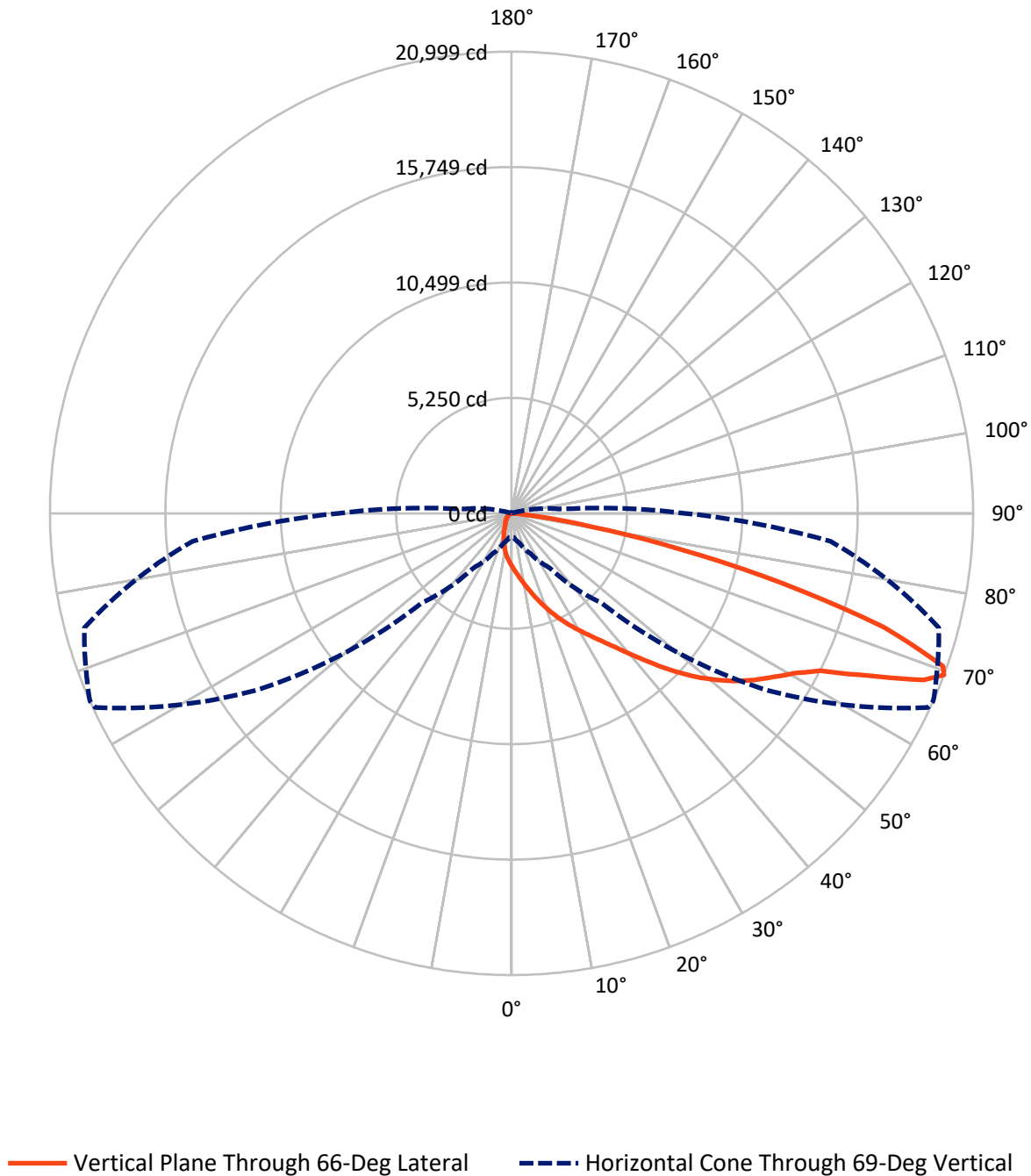
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1266.5	0.0	1266.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19847.5	0.0	19847.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	21114.0	0.0	21114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.1
10°-20°	691.3	3.3
20°-30°	1203.8	5.7
30°-40°	2112.0	10.0
40°-50°	3535.1	16.7
50°-60°	5196.3	24.6
60°-70°	5335.3	25.3
70°-80°	2633.9	12.5
80°-90°	174.1	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°	21114.0	100.0
0°-180°	21114.0	100.0

Coefficient of Utilization



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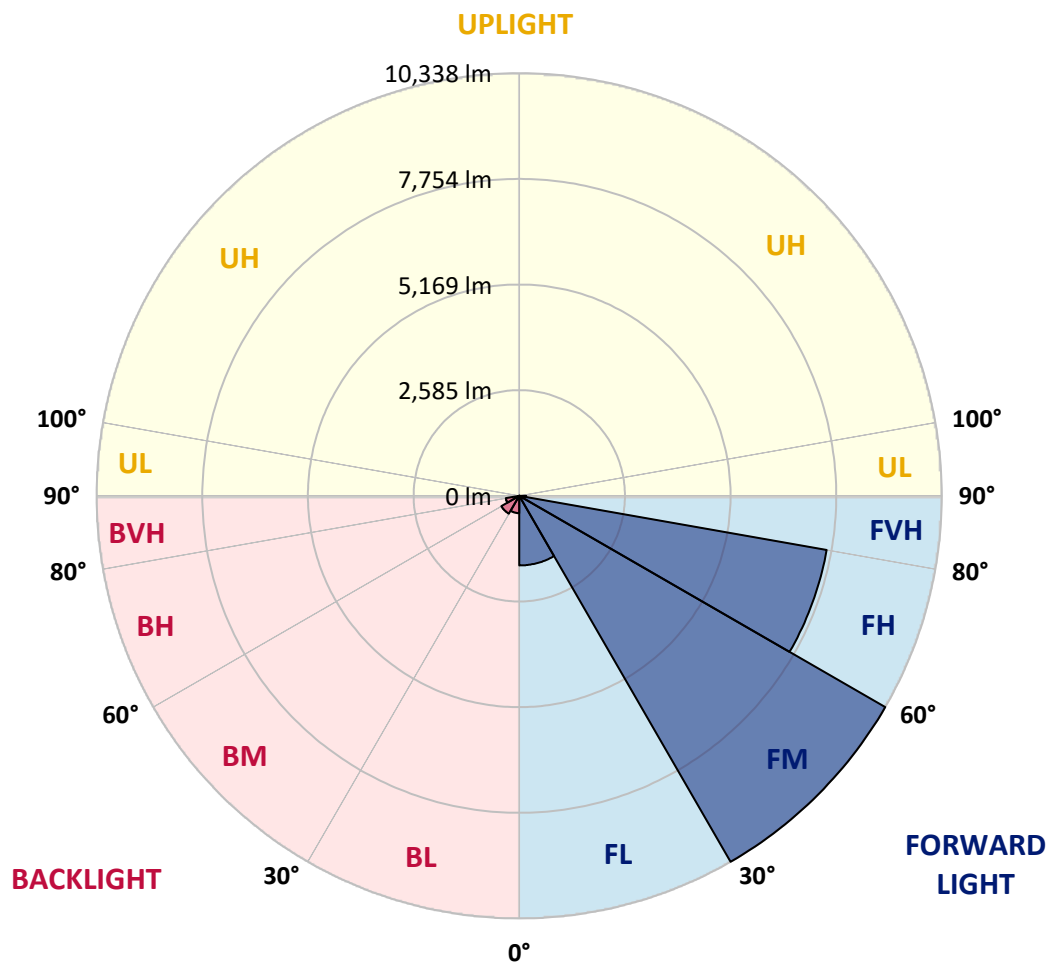
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1703.7	8.1			
FM	(30°-60°)	10338.4	49.0			
FH	(60°-80°)	7635.4	36.2			G4/12000
FVH	(80°-90°)	169.9	0.8			G2/225
BL	(0°-30°)	423.6	2.0	B1/500		
BM	(30°-60°)	505.0	2.4	B1/1000		
BH	(60°-80°)	333.8	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°	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8
2.5°	2828.1	2816.0	2811.0	2788.9	2750.8	2721.7	2665.6	2600.4	2588.4	2525.2	2448.0
5°	3195.1	3185.1	3178.0	3147.0	3107.8	3034.6	2932.3	2811.0	2787.9	2667.6	2513.2
7.5°	3450.8	3468.9	3468.9	3448.8	3399.7	3344.5	3219.2	3053.7	3024.6	2840.1	2600.4
10°	3600.3	3622.3	3639.4	3656.4	3649.4	3627.3	3509.0	3322.5	3287.4	3042.7	2701.7
12.5°	3614.3	3636.4	3684.5	3755.7	3824.9	3875.0	3800.8	3620.3	3580.2	3277.3	2822.0
15°	3536.1	3559.1	3633.3	3771.7	3939.2	4085.6	4109.7	3950.2	3909.1	3557.1	2972.5
17.5°	3399.7	3414.7	3521.0	3712.6	3975.3	4244.1	4389.5	4304.3	4266.1	3877.0	3139.9
20°	3298.4	3309.4	3402.7	3608.3	3953.3	4343.4	4654.3	4680.3	4640.2	4220.0	3321.5
22.5°	3471.9	3491.9	3495.0	3592.2	3893.1	4392.5	4886.9	5050.4	5020.3	4584.1	3500.0
25°	3946.2	3969.3	3893.1	3832.9	3944.2	4414.6	5086.5	5429.5	5405.4	4976.2	3679.5
27.5°	4573.0	4597.1	4498.8	4319.3	4212.0	4497.8	5264.0	5814.6	5813.6	5391.3	3873.0
30°	5188.8	5212.8	5112.6	4933.0	4686.3	4733.5	5417.4	6217.7	6223.7	5819.6	4078.6
32.5°	5834.6	5864.7	5761.4	5530.7	5273.0	5140.6	5633.0	6622.9	6657.0	6316.0	4310.3
35°	6568.7	6572.7	6427.3	6185.6	5888.8	5685.2	5979.0	7077.1	7158.4	6930.7	4604.1
37.5°	7288.8	7317.8	7198.5	6817.4	6544.6	6314.0	6493.5	7644.8	7760.1	7681.9	4988.2
40°	7822.3	7883.4	7866.4	7455.2	7196.5	7032.0	7132.3	8319.7	8466.1	8556.4	5472.6
42.5°	8157.2	8203.4	8281.6	8033.9	7799.2	7826.3	7886.5	9105.9	9286.4	9553.2	6029.2
45°	8541.3	8563.4	8628.6	8519.3	8360.8	8633.6	8686.7	9991.4	10181.0	10625.3	6646.9
47.5°	9010.7	9062.8	9080.9	8980.6	8908.4	9347.6	9457.9	10796.7	11062.5	11773.5	7300.8
50°	9608.4	9622.4	9653.5	9588.3	9516.1	9961.4	10149.9	11642.1	11883.8	12925.8	7945.6
52.5°	10193.0	10243.2	10351.5	10310.4	10281.3	10483.8	10766.7	12404.3	12674.1	13886.5	8589.5
55°	10361.5	10404.6	10778.7	11034.4	11271.1	11127.7	11356.3	13087.3	13379.1	14745.0	9209.2
57.5°	9688.6	9775.8	10423.7	11089.6	12071.4	12128.5	12166.6	13788.3	14050.0	15402.9	9854.1
60°	7987.7	8004.8	9067.8	10210.1	11939.0	13002.0	13350.0	14541.4	14761.0	16015.6	10626.3
62.5°	5080.5	5254.0	6420.3	8032.9	10539.0	12875.7	14781.1	15680.6	15760.9	16750.7	11733.4
65°	2419.9	2532.2	3372.6	4963.1	7633.7	11258.1	15768.9	17741.5	17777.6	18207.8	13212.6
67.5°	1339.8	1394.0	1794.1	2671.6	4462.7	7961.7	15369.8	20182.5	20216.6	19696.1	14510.3
69°	1048.0	1094.1	1409.0	2013.7	3025.6	5722.3	13908.6	20897.5	20998.8	20122.3	14556.4
70°	889.5	934.7	1213.5	1700.8	2432.9	4421.6	12380.2	20720.0	20827.3	20082.2	14212.5
72.5°	544.6	570.6	808.3	1197.4	1630.6	2224.3	7634.7	17522.9	17704.4	18421.4	12214.8
75°	367.0	381.1	505.4	826.4	1166.3	1145.3	3966.3	12351.2	12744.3	14329.8	9021.7
77.5°	262.7	275.8	339.0	534.5	817.3	756.2	1796.1	7675.9	7760.1	8594.5	4920.0
80°	149.4	161.5	239.7	317.9	554.6	504.4	714.0	3666.4	3708.6	3685.5	1642.7
82.5°	78.2	88.3	131.4	209.6	356.0	329.9	296.8	1227.5	1233.5	1025.9	360.0
85°	15.0	18.1	65.2	143.4	183.5	143.4	121.3	287.8	293.8	259.7	89.3
87.5°	0.0	1.0	26.1	32.1	36.1	37.1	39.1	56.2	60.2	81.2	24.1
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°	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8	2402.8
2.5°	2413.9	2377.8	2308.6	2228.3	2166.2	2105.0	2056.9	2006.7	1988.7	1979.6	1978.6
5°	2437.9	2361.7	2215.3	2064.9	1941.5	1825.2	1742.0	1662.7	1625.6	1608.6	1601.6
7.5°	2478.1	2355.7	2120.0	1890.4	1712.9	1567.5	1452.1	1365.9	1322.8	1304.7	1297.7
10°	2525.2	2347.7	2008.7	1705.9	1479.2	1328.8	1214.5	1129.2	1082.1	1062.0	1052.0
12.5°	2580.3	2333.6	1880.4	1519.3	1279.6	1129.2	990.8	885.5	831.4	808.3	797.3
15°	2648.5	2319.6	1746.0	1343.8	1104.1	920.6	769.2	698.0	687.0	682.9	683.9
17.5°	2715.7	2297.5	1599.6	1170.3	919.6	719.0	641.8	637.8	639.8	639.8	639.8
20°	2775.9	2247.4	1440.1	1021.9	744.1	606.7	590.7	583.7	578.6	574.6	569.6
22.5°	2823.0	2180.2	1286.7	874.5	607.7	555.6	530.5	508.4	490.4	478.4	472.3
25°	2855.1	2091.0	1146.3	733.1	546.6	505.4	460.3	423.2	395.1	378.1	371.1
27.5°	2879.2	1994.7	1020.9	613.7	504.4	447.3	388.1	344.0	314.9	299.9	293.8
30°	2896.2	1885.4	910.6	539.5	457.3	386.1	322.9	279.8	258.7	250.7	246.7
32.5°	2912.3	1764.0	806.3	504.4	413.2	329.9	270.8	237.7	224.6	214.6	211.6
35°	2952.4	1651.7	707.0	467.3	368.0	281.8	232.7	208.6	195.6	189.5	187.5
37.5°	3047.7	1568.5	611.7	429.2	322.9	243.7	203.6	186.5	174.5	168.5	166.5
40°	3201.1	1526.3	531.5	388.1	278.8	214.6	184.5	168.5	155.4	146.4	144.4
42.5°	3426.8	1532.4	475.4	347.0	243.7	191.5	166.5	147.4	133.4	125.4	123.4
45°	3700.5	1576.5	436.2	306.9	214.6	173.5	146.4	126.4	113.3	106.3	104.3
47.5°	3997.4	1647.7	404.2	270.8	191.5	156.4	126.4	105.3	94.3	88.3	87.2
50°	4310.3	1716.9	371.1	235.7	171.5	139.4	106.3	87.2	78.2	73.2	71.2
52.5°	4627.2	1797.1	341.0	203.6	154.4	119.3	88.3	71.2	64.2	60.2	58.2
55°	4968.1	1857.3	311.9	178.5	137.4	101.3	73.2	59.2	53.2	48.1	47.1
57.5°	5369.3	1950.6	281.8	154.4	117.3	84.2	60.2	47.1	42.1	37.1	36.1
60°	5910.8	2059.9	249.7	136.4	96.3	69.2	49.1	38.1	32.1	28.1	27.1
62.5°	6624.9	2181.2	209.6	119.3	78.2	56.2	39.1	30.1	23.1	18.1	18.1
65°	7530.4	2378.8	171.5	100.3	64.2	46.1	30.1	22.1	13.0	8.0	8.0
67.5°	8058.9	2412.9	138.4	82.2	52.1	39.1	25.1	15.0	4.0	1.0	0.0
69°	7889.5	2215.3	117.3	70.2	45.1	37.1	23.1	11.0	2.0	0.0	0.0
70°	7570.6	2025.8	103.3	62.2	41.1	35.1	22.1	8.0	2.0	0.0	0.0
72.5°	6255.8	1442.1	78.2	46.1	30.1	31.1	20.1	5.0	2.0	0.0	0.0
75°	4557.0	876.5	56.2	32.1	19.1	23.1	14.0	2.0	1.0	0.0	0.0
77.5°	2535.2	413.2	35.1	18.1	12.0	14.0	7.0	0.0	0.0	0.0	0.0
80°	823.3	112.3	16.0	10.0	7.0	8.0	3.0	0.0	0.0	0.0	0.0
82.5°	152.4	32.1	9.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	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)