

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: P383482

Luminaire Tested: **GAN-SA7D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383482
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-SA7D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 36370.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

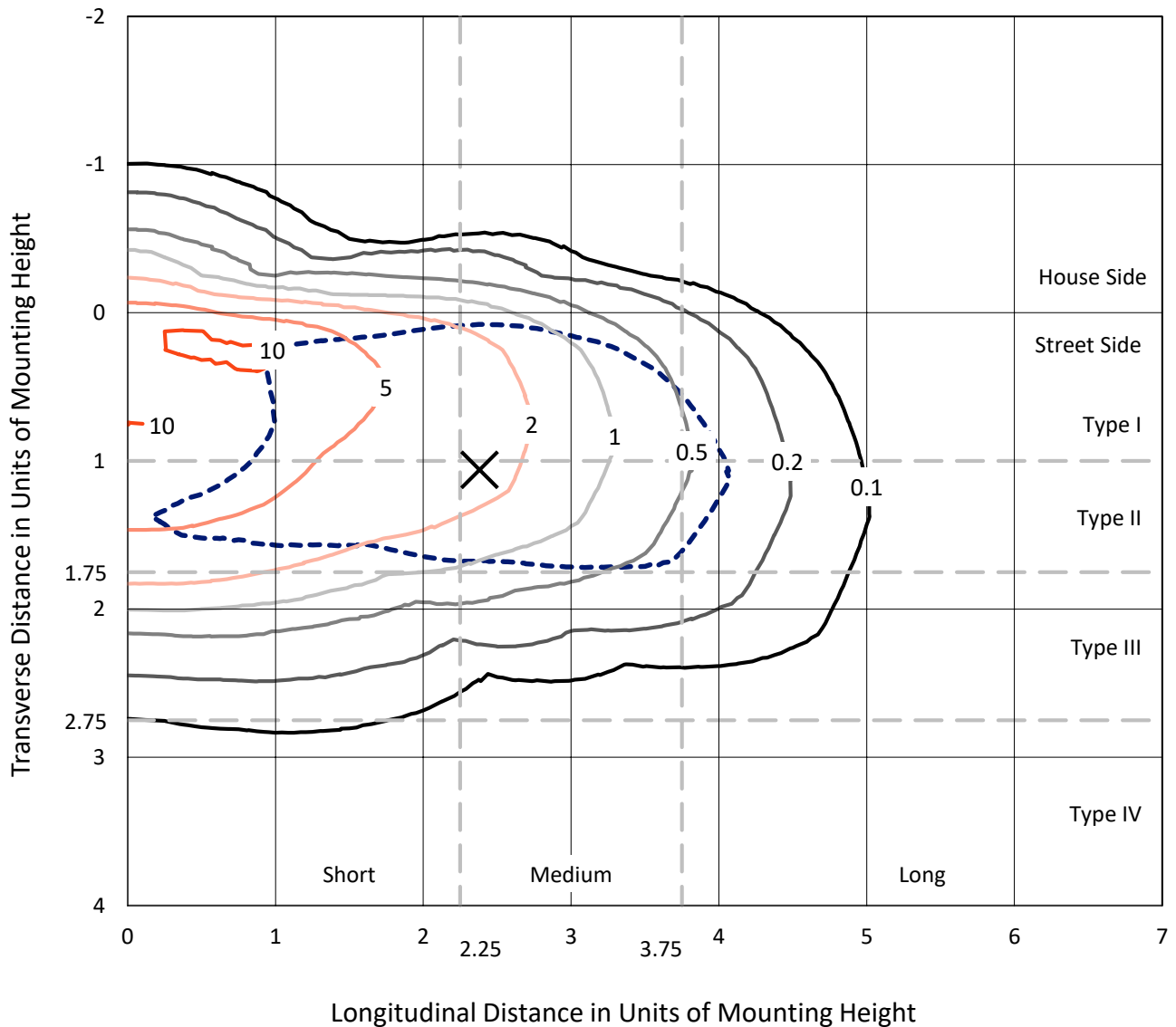
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

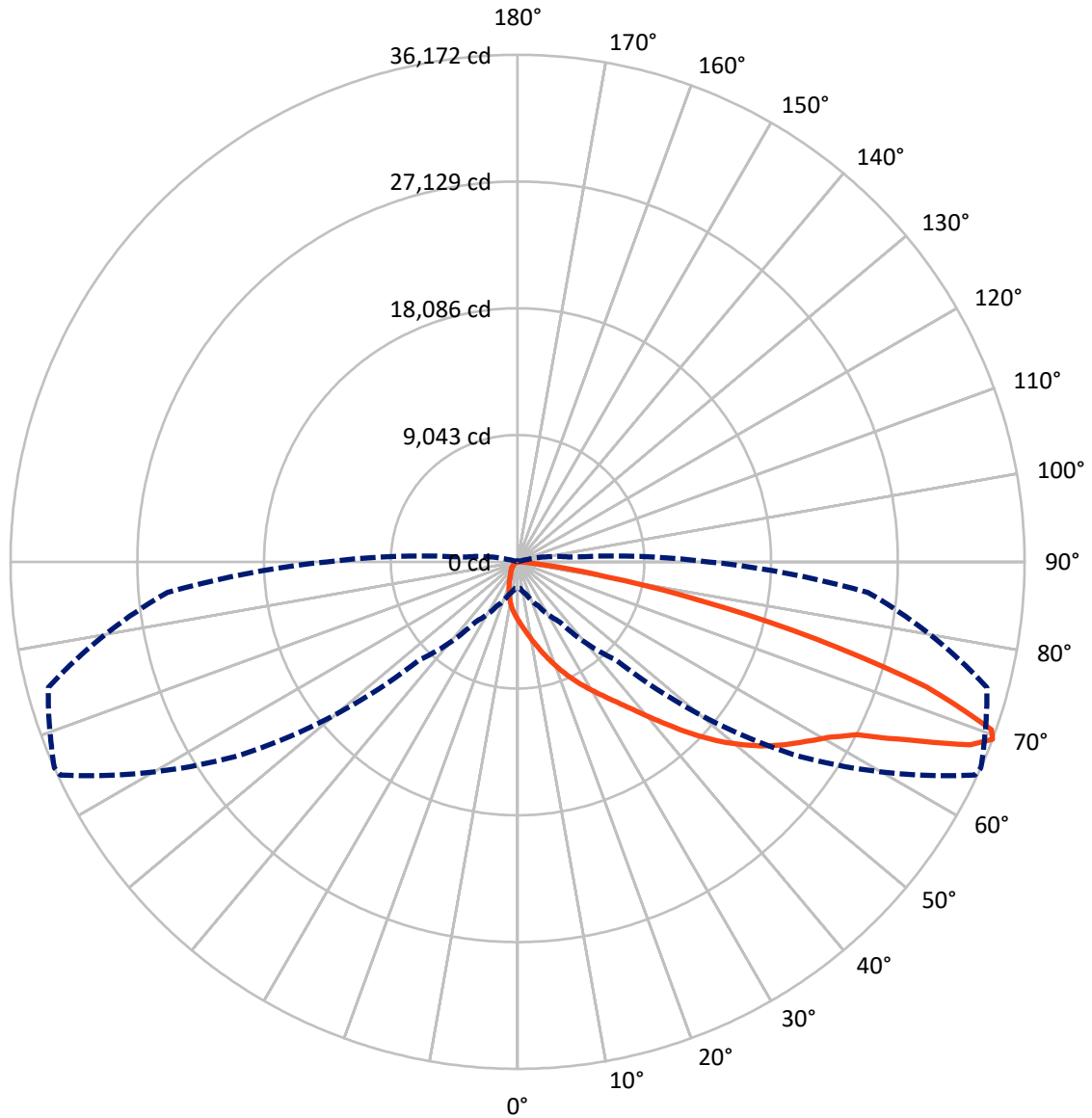
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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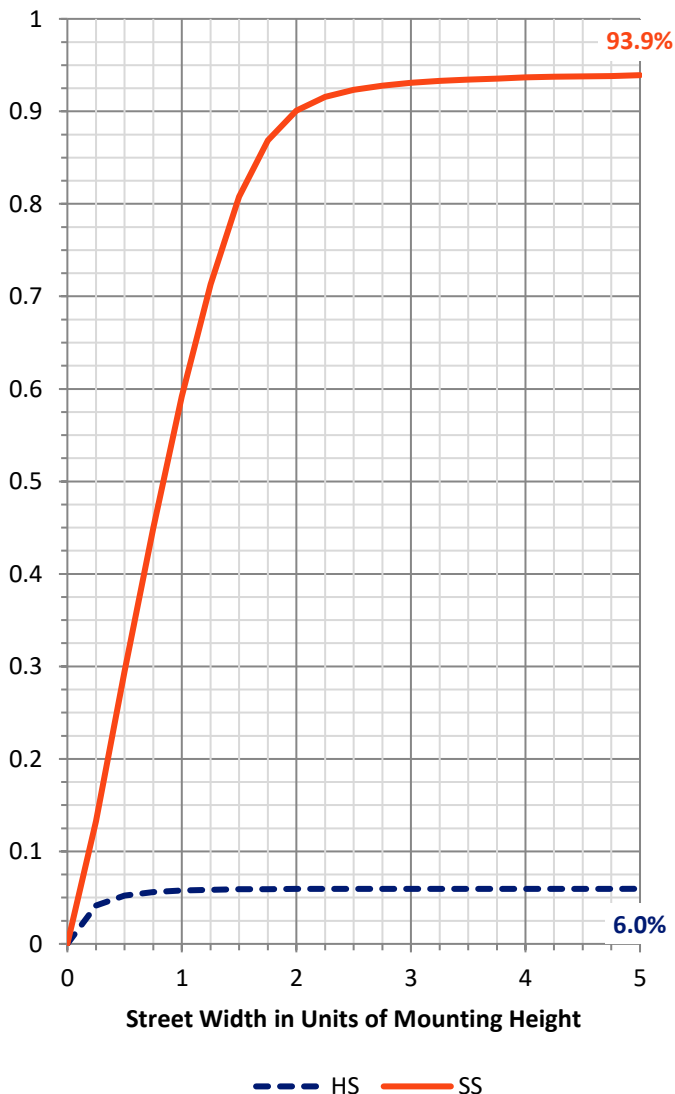
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2181.7	0.0	2181.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	34188.7	0.0	34188.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	36370.4	0.0	36370.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	1.1
10°-20°	1190.8	3.3
20°-30°	2073.5	5.7
30°-40°	3638.0	10.0
40°-50°	6089.5	16.7
50°-60°	8951.0	24.6
60°-70°	9190.4	25.3
70°-80°	4537.1	12.5
80°-90°	300.0	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°	36370.4	100.0
0°-180°	36370.4	100.0

Coefficient of Utilization

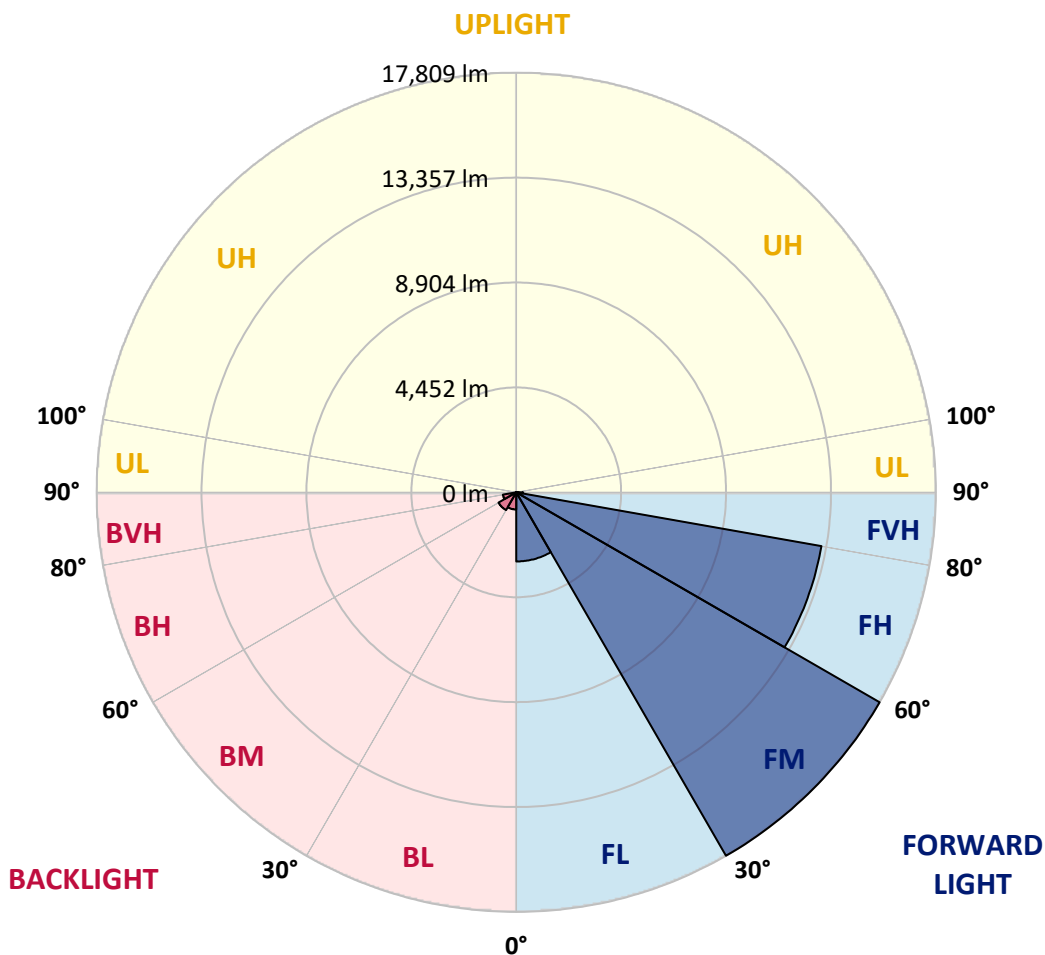


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.7	8.1			
FM (30°-60°)	17808.7	49.0			
FH (60°-80°)	13152.5	36.2			G5
FVH (80°-90°)	292.7	0.8			G3/500
BL (0°-30°)	729.7	2.0	B2/1000		
BM (30°-60°)	869.8	2.4	B1/1000		
BH (60°-80°)	575.0	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
2.5°	4871.5	4850.8	4842.2	4804.2	4738.5	4688.4	4591.7	4479.3	4458.7	4349.9	4216.8
5°	5503.8	5486.5	5474.4	5420.9	5353.5	5227.4	5051.2	4842.2	4802.4	4595.1	4329.1
7.5°	5944.3	5975.4	5975.4	5940.9	5856.2	5761.2	5545.2	5260.2	5210.1	4892.3	4479.3
10°	6201.7	6239.7	6269.0	6298.5	6286.4	6248.4	6044.5	5723.1	5662.7	5241.2	4653.8
12.5°	6225.9	6263.9	6346.8	6469.4	6588.6	6675.0	6547.2	6236.2	6167.1	5645.5	4861.2
15°	6091.1	6130.9	6258.7	6497.1	6785.6	7037.8	7079.3	6804.6	6733.8	6127.4	5120.3
17.5°	5856.2	5882.1	6065.2	6395.2	6847.8	7310.8	7561.2	7414.4	7348.8	6678.5	5408.8
20°	5681.7	5700.7	5861.4	6215.5	6809.8	7481.7	8017.3	8062.2	7993.1	7269.2	5721.5
22.5°	5980.5	6015.1	6020.3	6187.9	6706.1	7566.4	8418.0	8699.6	8647.8	7896.4	6029.0
25°	6797.7	6837.4	6706.1	6602.4	6794.2	7604.4	8761.9	9352.6	9311.2	8571.8	6338.2
27.5°	7877.4	7918.8	7749.5	7440.3	7255.5	7747.8	9067.6	10016.0	10014.2	9287.0	6671.6
30°	8938.0	8979.5	8806.8	8497.6	8072.6	8153.7	9331.9	10710.5	10720.8	10024.7	7025.7
32.5°	10050.6	10102.4	9924.4	9527.1	9083.1	8855.1	9703.3	11408.4	11467.1	10879.7	7424.7
35°	11315.0	11321.9	11071.5	10655.1	10143.8	9793.2	10299.3	12190.9	12330.8	11938.7	7930.9
37.5°	12555.4	12605.5	12399.9	11743.5	11273.6	10876.3	11185.5	13168.6	13367.3	13232.5	8592.5
40°	13474.5	13579.8	13550.5	12842.1	12396.5	12113.2	12285.9	14331.3	14583.5	14738.9	9426.9
42.5°	14051.4	14130.9	14265.6	13839.0	13434.7	13481.4	13585.0	15685.6	15996.5	16456.1	10385.6
45°	14713.0	14751.1	14863.3	14675.0	14402.1	14872.0	14963.5	17211.0	17537.5	18302.8	11449.8
47.5°	15521.5	15611.3	15642.5	15469.7	15345.3	16102.0	16291.9	18598.2	19055.9	20280.7	12576.2
50°	16551.1	16575.3	16628.9	16516.5	16392.2	17159.2	17483.9	20054.4	20470.8	22265.7	13686.9
52.5°	17558.2	17644.6	17831.1	17760.3	17710.2	18059.2	18546.4	21367.4	21832.0	23920.6	14796.0
55°	17848.5	17922.7	18567.0	19007.6	19415.3	19168.3	19562.1	22543.7	23046.5	25399.3	15863.5
57.5°	16689.3	16839.6	17955.6	19102.6	20793.8	20892.3	20958.0	23751.3	24202.2	26532.5	16974.3
60°	13759.4	13788.9	15620.0	17587.6	20565.8	22396.9	22996.4	25048.7	25427.0	27588.1	18304.5
62.5°	8751.5	9050.4	11059.4	13837.2	18154.2	22179.3	25461.5	27011.1	27149.3	28854.3	20211.7
65°	4168.4	4361.9	5809.6	8549.4	13149.6	19392.9	27163.1	30561.1	30623.2	31364.4	22759.7
67.5°	2307.9	2401.3	3090.5	4602.0	7687.3	13714.5	26475.5	34765.7	34824.5	33927.9	24995.1
69°	1805.2	1884.7	2427.1	3468.8	5211.8	9857.1	23958.6	35997.5	36171.9	34662.1	25074.6
70°	1532.3	1610.0	2090.3	2929.8	4190.9	7616.5	21325.9	35691.7	35876.5	34593.0	24482.0
72.5°	938.1	983.0	1392.4	2062.6	2808.9	3831.5	13151.4	30184.5	30497.1	31732.3	21040.9
75°	632.2	656.5	870.6	1423.5	2009.1	1972.8	6832.2	21275.8	21952.9	24684.1	15540.5
77.5°	452.6	475.1	583.9	920.7	1407.9	1302.5	3093.9	13222.2	13367.3	14804.6	8475.0
80°	257.4	278.2	412.9	547.7	955.3	868.9	1230.0	6315.7	6388.3	6348.5	2829.7
82.5°	134.7	152.0	226.3	361.1	613.2	568.3	511.3	2114.4	2124.9	1767.2	620.1
85°	25.9	31.1	112.3	247.0	316.2	247.0	209.0	495.8	506.1	447.4	153.7
87.5°	0.0	1.8	44.9	55.2	62.2	63.9	67.4	96.7	103.7	139.9	41.5
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°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
2.5°	4158.1	4095.9	3976.7	3838.4	3731.4	3626.0	3543.0	3456.7	3425.6	3410.0	3408.3
5°	4199.5	4068.3	3816.0	3556.9	3344.4	3144.1	3000.6	2864.1	2800.2	2770.9	2758.8
7.5°	4268.6	4057.9	3651.9	3256.3	2950.6	2700.1	2501.4	2352.8	2278.6	2247.5	2235.3
10°	4349.9	4044.0	3460.1	2938.5	2548.1	2288.9	2092.0	1945.2	1863.9	1829.4	1812.1
12.5°	4444.9	4019.9	3239.1	2617.2	2204.3	1945.2	1706.8	1525.4	1432.1	1392.4	1373.4
15°	4562.3	3995.7	3007.6	2314.8	1901.9	1585.9	1324.9	1202.3	1183.3	1176.5	1178.1
17.5°	4678.0	3957.7	2755.3	2016.0	1584.1	1238.6	1105.6	1098.7	1102.1	1102.1	1102.1
20°	4781.7	3871.3	2480.7	1760.3	1281.8	1045.1	1017.5	1005.4	996.8	989.9	981.2
22.5°	4862.9	3755.5	2216.3	1506.4	1046.9	957.1	913.8	875.8	844.7	824.0	813.6
25°	4918.2	3601.8	1974.5	1262.8	941.5	870.6	792.9	729.0	680.6	651.2	639.1
27.5°	4959.7	3436.0	1758.6	1057.2	868.9	770.5	668.6	592.6	542.4	516.5	506.1
30°	4989.0	3247.7	1568.5	929.4	787.7	665.1	556.2	482.0	445.7	431.9	425.0
32.5°	5016.7	3038.6	1388.9	868.9	711.7	568.3	466.4	409.4	387.0	369.6	364.5
35°	5085.7	2845.1	1217.9	805.0	634.0	485.4	400.8	359.3	336.8	326.5	323.1
37.5°	5249.8	2701.8	1053.8	739.4	556.2	419.8	350.6	321.3	300.6	290.2	286.7
40°	5514.1	2629.2	915.5	668.6	480.2	369.6	317.8	290.2	267.7	252.2	248.7
42.5°	5902.8	2639.6	818.8	597.7	419.8	330.0	286.7	253.9	229.7	215.9	212.5
45°	6374.5	2715.6	751.5	528.7	369.6	298.8	252.2	217.7	195.3	183.1	179.7
47.5°	6885.8	2838.2	696.1	466.4	330.0	269.5	217.7	181.4	162.4	152.0	150.3
50°	7424.7	2957.5	639.1	406.0	295.4	240.2	183.1	150.3	134.7	126.1	122.7
52.5°	7970.6	3095.6	587.3	350.6	266.0	205.6	152.0	122.7	110.6	103.7	100.2
55°	8558.0	3199.3	537.2	307.5	236.7	174.5	126.1	101.9	91.6	82.9	81.2
57.5°	9249.0	3360.0	485.4	266.0	202.1	145.1	103.7	81.2	72.6	63.9	62.2
60°	10181.8	3548.3	430.2	234.9	165.8	119.2	84.7	65.7	55.2	48.3	46.7
62.5°	11411.8	3757.3	361.1	205.6	134.7	96.7	67.4	51.8	39.8	31.1	31.1
65°	12971.7	4097.6	295.4	172.7	110.6	79.5	51.8	38.0	22.5	13.8	13.8
67.5°	13882.1	4156.4	238.4	141.7	89.8	67.4	43.2	25.9	6.9	1.8	0.0
69°	13590.2	3816.0	202.1	120.9	77.7	63.9	39.8	19.0	3.4	0.0	0.0
70°	13040.8	3489.6	177.9	107.1	70.8	60.5	38.0	13.8	3.4	0.0	0.0
72.5°	10776.0	2484.2	134.7	79.5	51.8	53.6	34.6	8.7	3.4	0.0	0.0
75°	7849.7	1509.9	96.7	55.2	32.8	39.8	24.2	3.4	1.8	0.0	0.0
77.5°	4367.1	711.7	60.5	31.1	20.8	24.2	12.1	0.0	0.0	0.0	0.0
80°	1418.3	193.5	27.7	17.2	12.1	13.8	5.2	0.0	0.0	0.0	0.0
82.5°	262.6	55.2	15.6	8.7	3.4	3.4	0.0	0.0	0.0	0.0	0.0
85°	57.0	22.5	8.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	6.9	1.8	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)