

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: P321623

Luminaire Tested: **GAN-SA9D-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53349 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

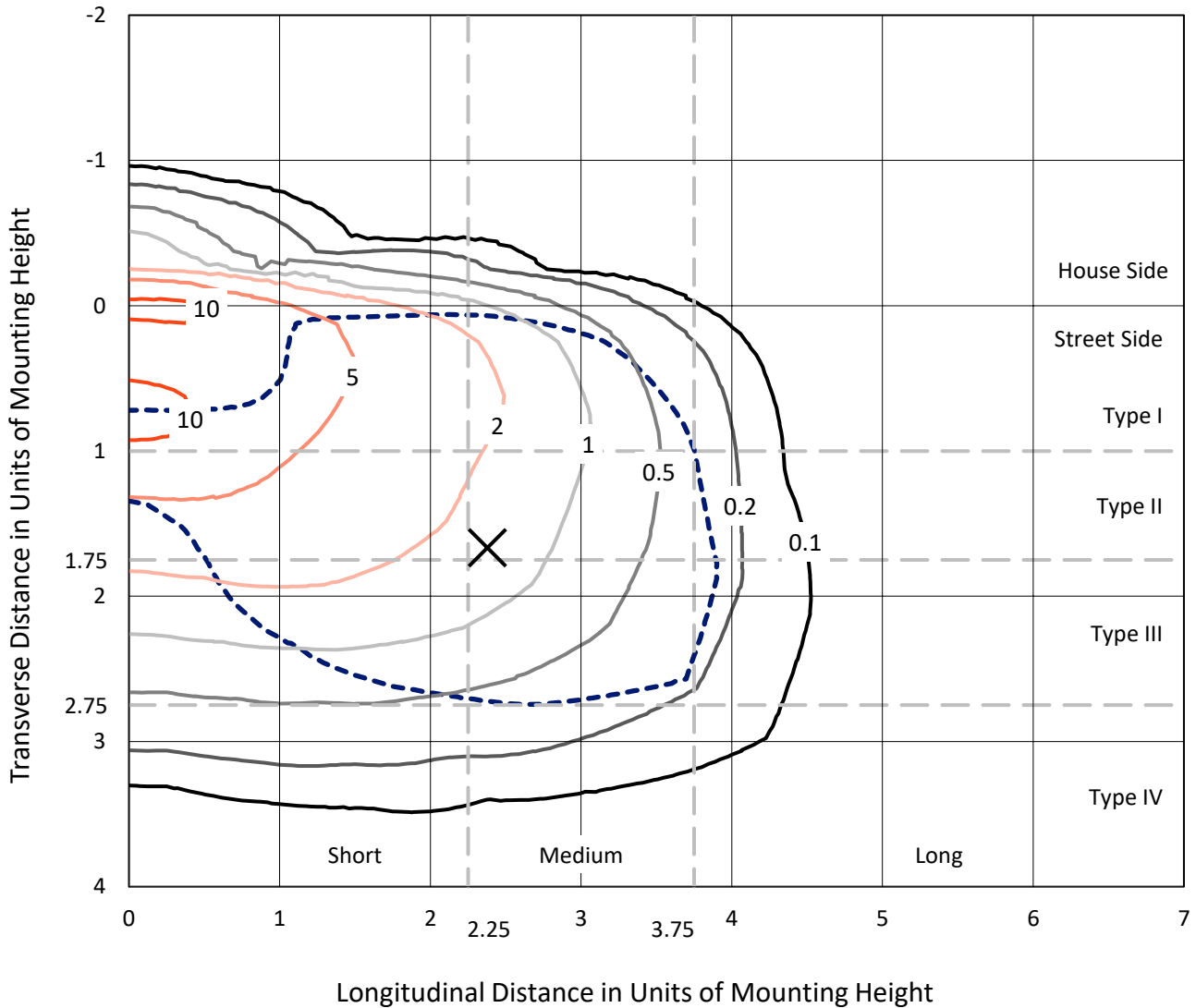
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

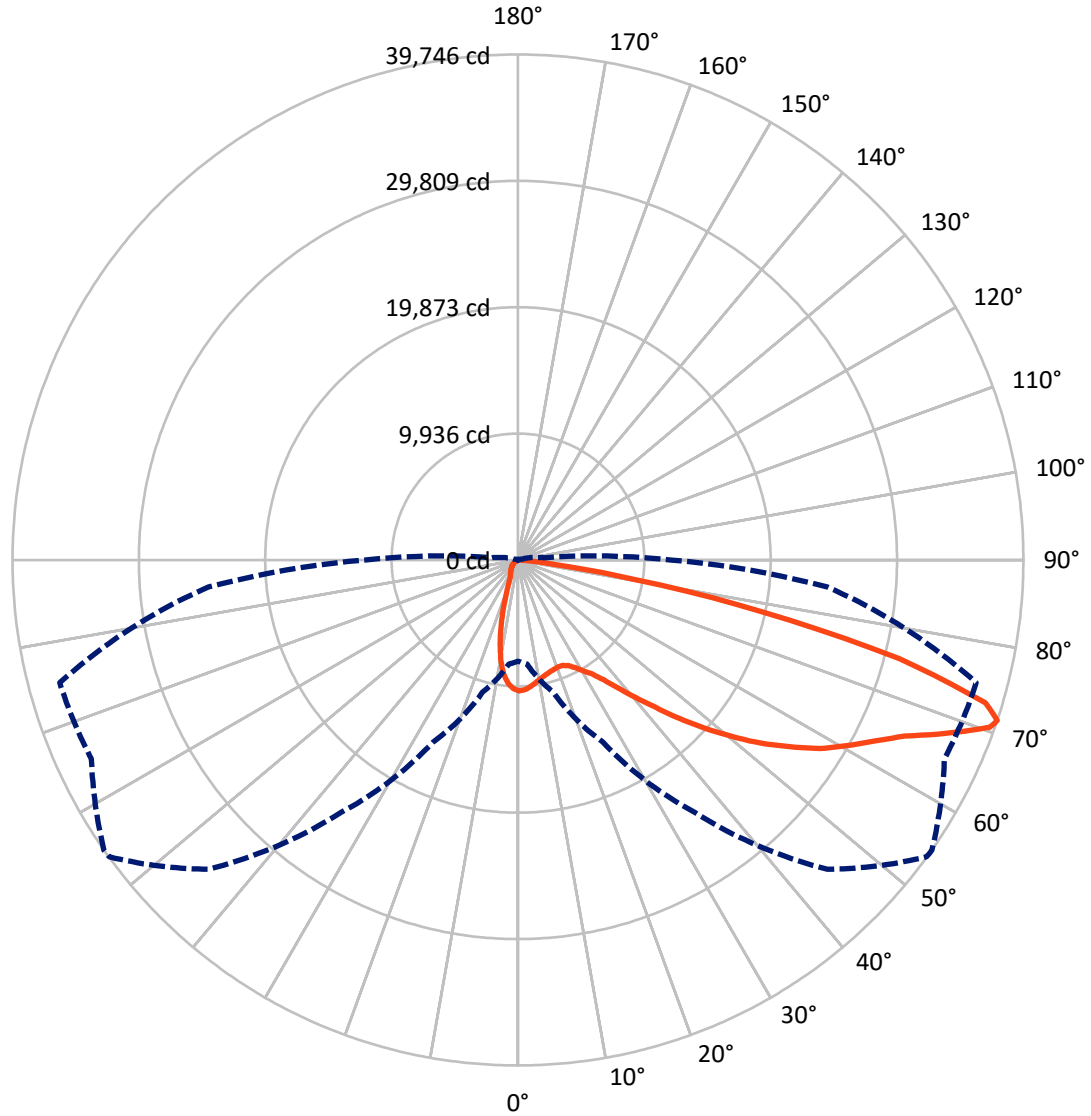
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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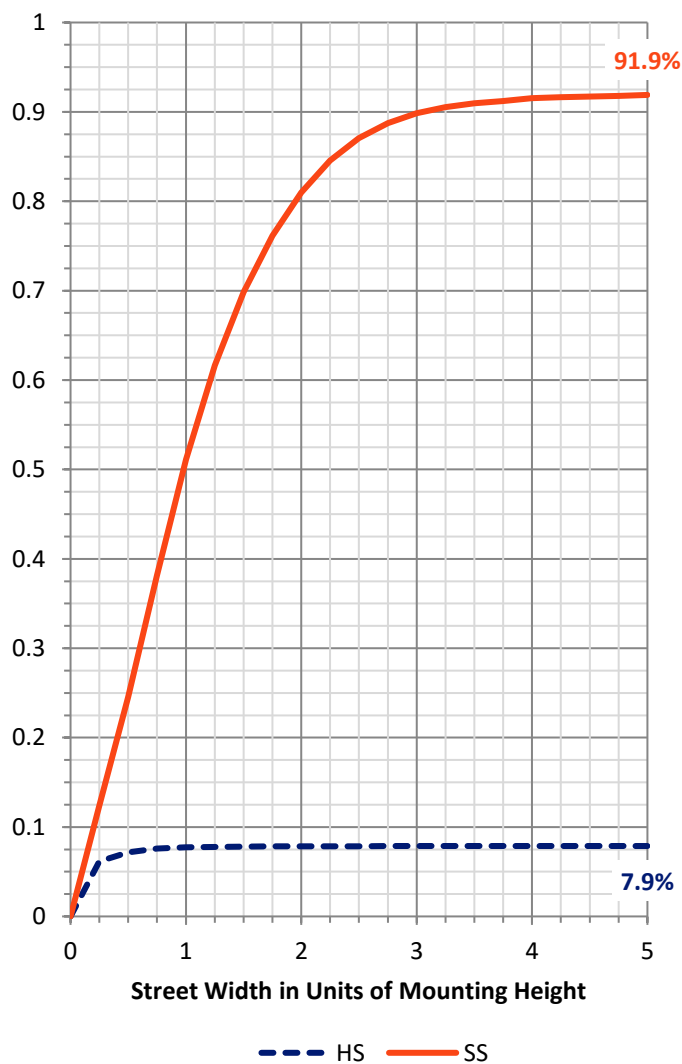
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4223.8	0.0	4223.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	49125.2	0.0	49125.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	53349.0	0.0	53349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.2	1.6
10°-20°	1980.4	3.7
20°-30°	3182.6	6.0
30°-40°	5407.4	10.1
40°-50°	8393.0	15.7
50°-60°	11284.1	21.2
60°-70°	13804.3	25.9
70°-80°	8071.0	15.1
80°-90°	348.9	0.7
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°	53349.0	100.0
0°-180°	53349.0	100.0

Coefficient of Utilization

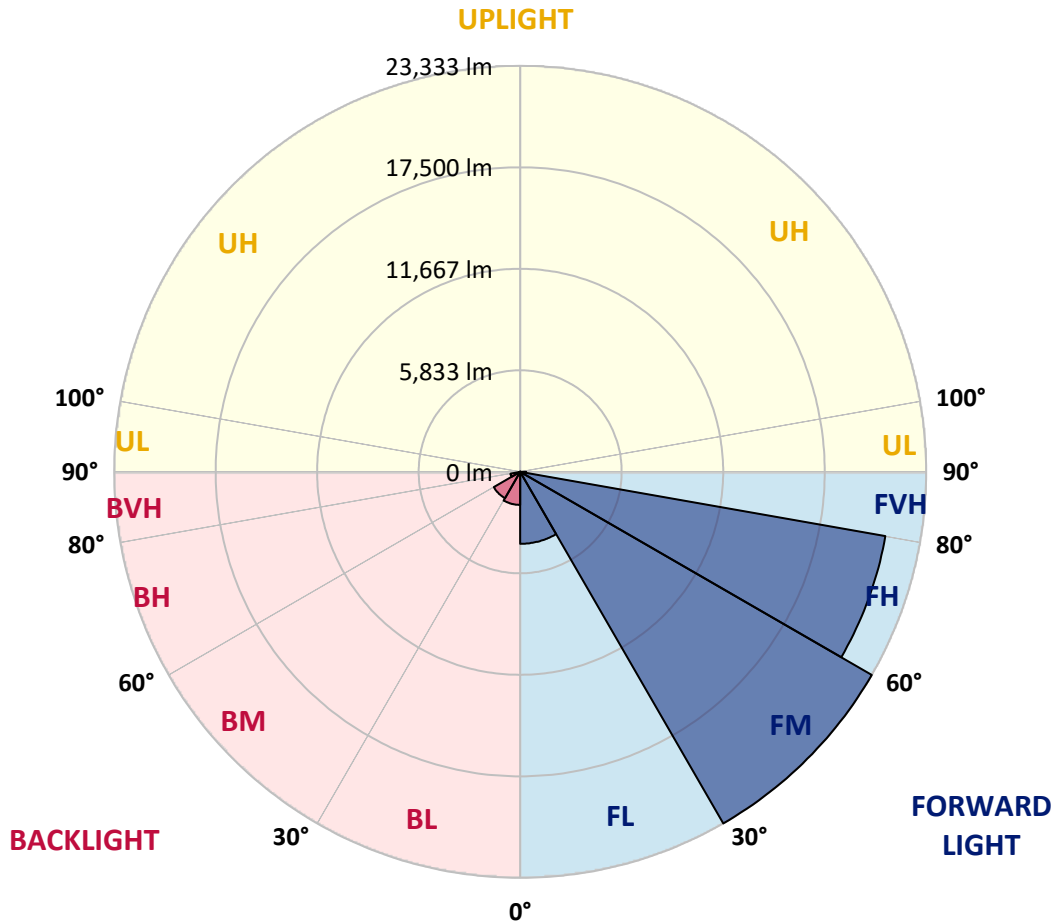


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4139.1	7.8			
FM (30°-60°)	23333.3	43.7			
FH (60°-80°)	21309.4	39.9			G5
FVH (80°-90°)	343.4	0.6			G3/500
BL (0°-30°)	1901.1	3.6	B3/2500		
BM (30°-60°)	1751.3	3.3	B2/2500		
BH (60°-80°)	565.9	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5
2.5°	9986.7	9998.7	10041.8	10061.0	10106.5	10183.1	10221.5	10223.9	10286.2	10310.1	10329.3
5°	9280.1	9351.9	9423.8	9500.4	9639.4	9823.8	10005.9	10022.6	10223.9	10372.4	10451.4
7.5°	8671.6	8736.3	8822.5	8944.7	9141.1	9431.0	9735.2	9771.1	10152.0	10489.8	10667.0
10°	8046.4	8099.1	8223.7	8403.3	8674.0	9062.1	9471.7	9531.6	10087.3	10647.9	10959.3
12.5°	7378.0	7409.2	7560.1	7818.8	8216.5	8709.9	9248.9	9328.0	10046.6	10829.9	11304.2
15°	6870.2	6884.6	7028.3	7296.6	7751.7	8393.7	9076.4	9172.3	10056.2	11047.9	11680.3
17.5°	6740.9	6748.0	6824.7	7009.1	7411.6	8111.1	8939.9	9057.3	10084.9	11261.1	12058.8
20°	7265.5	7215.2	7136.1	7107.4	7279.8	7941.0	8858.5	8990.2	10123.3	11450.3	12399.0
22.5°	8705.1	8556.6	8228.4	7790.1	7524.2	7953.0	8880.0	9011.8	10245.4	11682.7	12791.8
25°	10841.9	10635.9	10077.7	9215.4	8386.5	8297.9	9059.7	9193.8	10482.6	11960.6	13167.9
27.5°	13273.3	13069.7	12387.0	11155.7	9742.4	8980.6	9471.7	9596.3	10834.7	12207.3	13455.4
30°	15601.7	15544.2	14739.3	13340.4	11448.0	10087.3	10003.5	10108.9	11095.8	12355.8	13682.9
32.5°	17575.6	17484.5	16837.8	15477.1	13400.3	11416.8	10628.7	10659.8	11292.2	12547.5	13980.0
35°	19405.7	19293.1	18725.4	17439.0	15402.9	13040.9	11591.7	11546.2	11721.0	12933.1	14411.2
37.5°	21003.5	21106.5	20476.5	19252.4	17199.5	14729.7	12890.0	12753.5	12391.8	13560.8	15036.4
40°	22340.2	22340.2	22012.0	20991.5	19139.8	16476.0	14358.5	14178.8	13400.3	14528.5	15829.3
42.5°	22821.6	22924.7	23046.8	22469.5	20876.5	18291.8	15994.6	15807.7	14820.8	15901.1	16830.6
45°	22850.4	23013.3	23638.5	23636.1	22445.6	20095.6	17839.1	17750.4	16641.3	17664.2	18071.4
47.5°	22445.6	22649.2	23679.2	24263.7	23688.8	21774.8	19856.1	19745.9	18780.5	19824.9	19369.8
50°	21820.3	22045.5	23243.3	24510.5	24534.4	23236.1	21980.8	21815.6	21135.2	22294.6	20711.2
52.5°	20701.7	21137.6	22852.8	24567.9	25090.2	24498.5	24002.6	23930.8	23770.3	24673.3	21779.6
55°	18308.6	18792.5	21873.0	24587.1	25605.2	25617.2	25897.4	25916.6	26240.0	26896.3	22574.9
57.5°	17177.9	17451.0	20162.7	24678.1	26369.3	26886.8	27828.2	27976.7	28477.4	29006.8	23482.8
60°	16466.5	16789.9	19319.5	24553.6	27569.5	28551.6	29617.6	29667.9	30204.5	31184.2	24711.7
62.5°	15898.7	16217.3	18787.7	24074.5	28918.1	30554.2	31366.3	31371.1	31773.5	33778.5	26108.2
65°	14497.4	14765.7	17712.1	23535.5	29809.2	32535.3	33397.7	33366.5	33694.7	36514.2	27730.0
67.5°	12470.8	12676.8	15515.5	21492.2	29473.9	34336.7	36463.9	36360.8	35963.2	38878.5	28367.2
70°	9641.8	9716.0	12228.9	17910.9	26331.0	35029.0	39427.0	39374.3	37355.0	38454.5	26031.6
71°	7969.7	8214.1	10777.2	15807.7	24225.4	34389.4	39714.5	39745.6	37005.2	37299.9	24424.2
72.5°	4628.0	4836.5	7811.6	12140.2	20567.5	31720.8	38224.5	38449.7	35371.5	33927.0	20862.2
75°	991.7	1061.2	2896.1	5876.1	11313.8	22232.4	30171.0	30973.4	28829.5	23080.4	12573.8
77.5°	689.9	745.0	1240.9	2666.2	3739.3	10985.6	18742.2	19647.6	17223.4	8674.0	4024.4
80°	546.2	608.4	967.8	1317.5	1010.9	3542.9	8779.4	9332.8	5744.3	1935.5	677.9
82.5°	304.2	361.7	754.6	711.5	388.1	673.1	2457.8	2778.7	1149.8	390.5	160.5
85°	88.6	107.8	486.3	517.4	165.3	129.4	419.2	519.8	218.0	103.0	71.9
87.5°	0.0	0.0	234.8	198.8	47.9	19.2	38.3	43.1	43.1	43.1	47.9
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°	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5	10288.5
2.5°	10329.3	10346.0	10286.2	10207.1	10123.3	10020.3	9912.5	9828.6	9826.2	9785.5	9744.8
5°	10456.2	10446.6	10281.4	10029.8	9732.8	9423.8	9129.1	8796.2	8686.0	8549.4	8503.9
7.5°	10691.0	10623.9	10274.2	9723.2	9071.6	8424.9	7756.5	7083.4	6795.9	6537.2	6491.7
10°	10985.6	10858.7	10228.7	9263.3	8067.9	6875.0	5866.5	4951.4	4549.0	4240.0	4225.6
12.5°	11292.2	11098.2	10101.7	8568.6	6752.8	5076.0	3914.2	3013.5	2678.1	2462.5	2481.7
15°	11613.2	11323.4	9828.6	7632.0	5255.7	3444.7	2405.1	1875.7	1741.5	1686.4	1700.8
17.5°	11941.4	11479.1	9447.7	6503.7	3777.7	2223.0	1664.9	1516.3	1516.3	1528.3	1533.1
20°	12226.5	11562.9	8887.2	5238.9	2560.8	1619.3	1456.4	1434.9	1446.9	1466.0	1468.4
22.5°	12509.1	11567.7	8156.6	3957.3	1791.8	1418.1	1387.0	1377.4	1384.6	1406.1	1408.5
25°	12739.1	11510.2	7241.5	2814.7	1430.1	1336.7	1322.3	1317.5	1322.3	1348.6	1348.6
27.5°	12832.5	11301.8	6125.2	1978.7	1281.6	1245.6	1240.9	1245.6	1252.8	1272.0	1274.4
30°	12842.1	10937.7	4908.3	1432.5	1161.8	1123.5	1133.1	1149.8	1142.6	1137.8	1142.6
32.5°	12866.1	10516.1	3722.6	1178.6	1061.2	1001.3	989.3	989.3	960.6	943.8	934.2
35°	12945.1	10020.3	2699.7	1058.8	958.2	888.7	843.2	790.5	735.4	706.7	699.5
37.5°	13069.7	9500.4	1933.1	979.7	867.2	788.1	701.9	608.4	529.4	507.8	507.8
40°	13297.3	8963.9	1430.1	917.5	795.3	697.1	567.7	445.6	373.7	361.7	361.7
42.5°	13656.6	8398.5	1140.2	862.4	733.0	603.7	433.6	323.4	270.7	263.5	261.1
45°	14030.3	7775.7	996.5	809.7	665.9	495.9	321.0	239.5	208.4	201.2	201.2
47.5°	14404.0	7112.2	927.0	759.4	601.3	385.7	239.5	189.2	174.9	174.9	177.3
50°	14720.2	6419.9	876.7	704.3	517.4	292.2	189.2	160.5	155.7	165.3	167.7
52.5°	14799.2	5739.5	814.5	634.8	414.4	222.8	155.7	141.3	141.3	141.3	141.3
55°	14751.3	5212.5	733.0	548.6	306.6	177.3	134.1	124.6	122.2	122.2	122.2
57.5°	14914.2	4901.1	586.9	426.4	220.4	143.7	117.4	110.2	105.4	103.0	103.0
60°	15242.4	4697.5	419.2	306.6	165.3	119.8	100.6	93.4	86.2	81.4	81.4
62.5°	15678.4	4520.3	311.4	227.6	127.0	95.8	83.8	76.7	67.1	62.3	62.3
65°	16013.7	4204.1	237.2	170.1	95.8	76.7	64.7	62.3	47.9	43.1	40.7
67.5°	15501.1	3509.4	191.6	124.6	71.9	59.9	50.3	47.9	28.7	24.0	24.0
70°	13294.9	2443.4	153.3	91.0	52.7	47.9	40.7	31.1	21.6	19.2	19.2
71°	12056.4	2040.9	138.9	76.7	45.5	45.5	38.3	26.4	19.2	16.8	16.8
72.5°	10015.5	1449.3	117.4	59.9	40.7	47.9	40.7	24.0	19.2	16.8	14.4
75°	5813.8	606.1	81.4	40.7	31.1	57.5	52.7	21.6	14.4	12.0	12.0
77.5°	1748.7	222.8	45.5	26.4	24.0	50.3	59.9	19.2	7.2	2.4	2.4
80°	318.6	95.8	28.7	16.8	16.8	31.1	45.5	9.6	0.0	0.0	0.0
82.5°	112.6	47.9	16.8	9.6	7.2	14.4	21.6	0.0	0.0	0.0	0.0
85°	64.7	33.5	9.6	4.8	0.0	2.4	4.8	0.0	0.0	0.0	0.0
87.5°	43.1	9.6	0.0	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)