

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: P191897

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52130 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
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: 28.75 FT

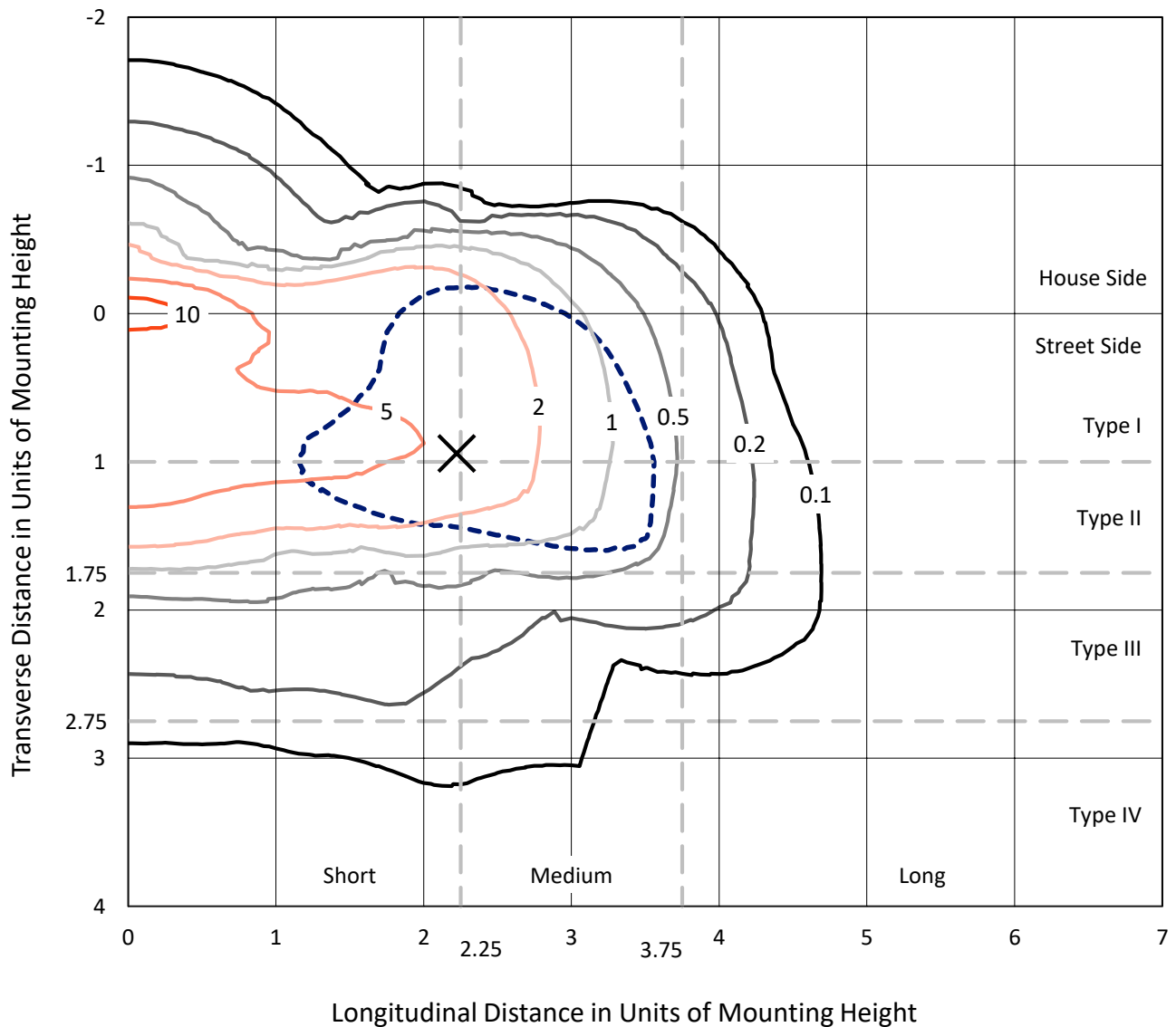


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

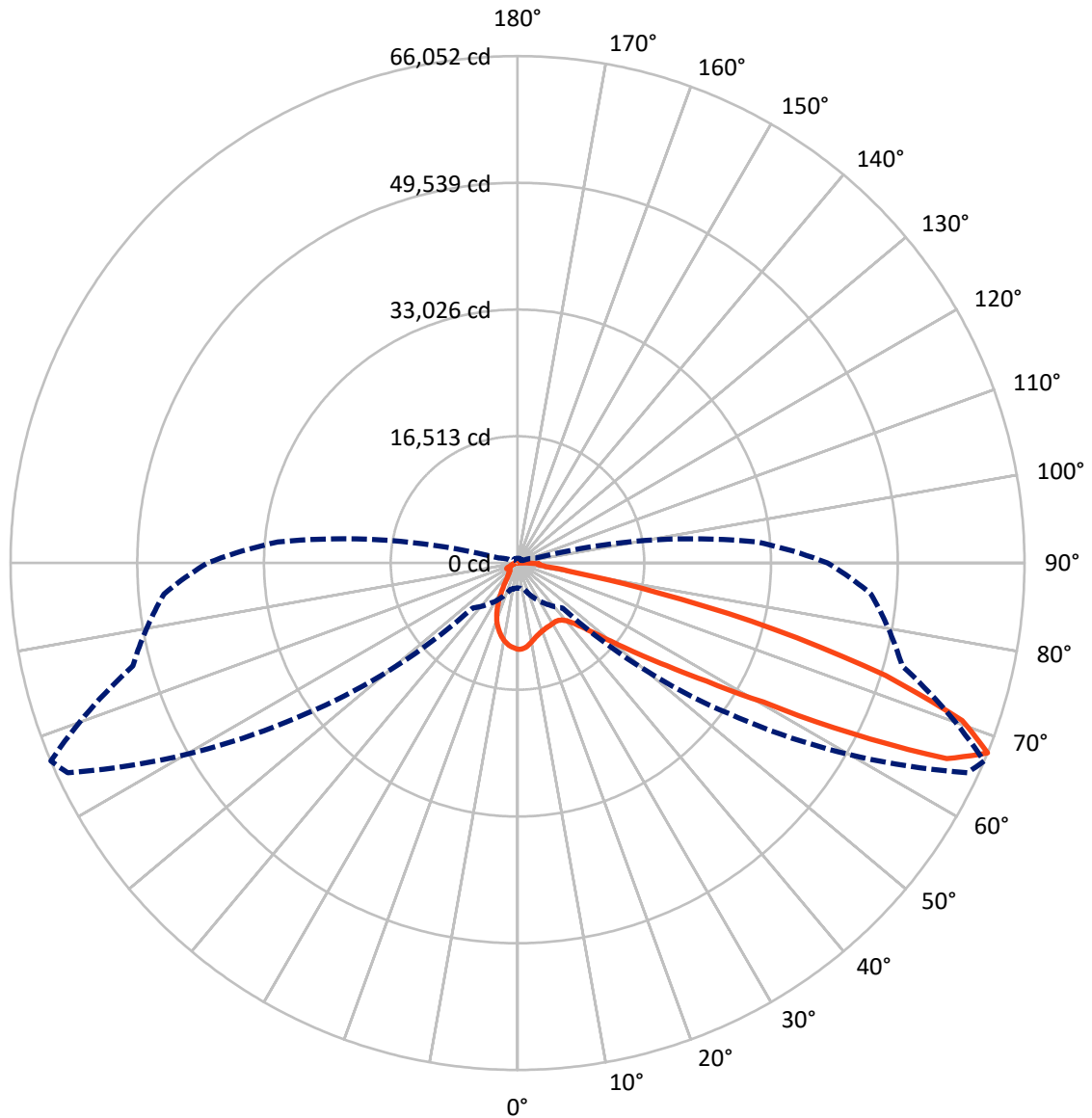


Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8637.4	0.0	8637.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	43492.6	0.0	43492.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	52130.0	0.0	52130.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.3	1.8
10°-20°	2219.7	4.3
20°-30°	3008.8	5.8
30°-40°	4277.4	8.2
40°-50°	7156.2	13.7
50°-60°	11321.0	21.7
60°-70°	14421.9	27.7
70°-80°	7554.2	14.5
80°-90°	1211.6	2.3
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°	52130.0	100.0
0°-180°	52130.0	100.0



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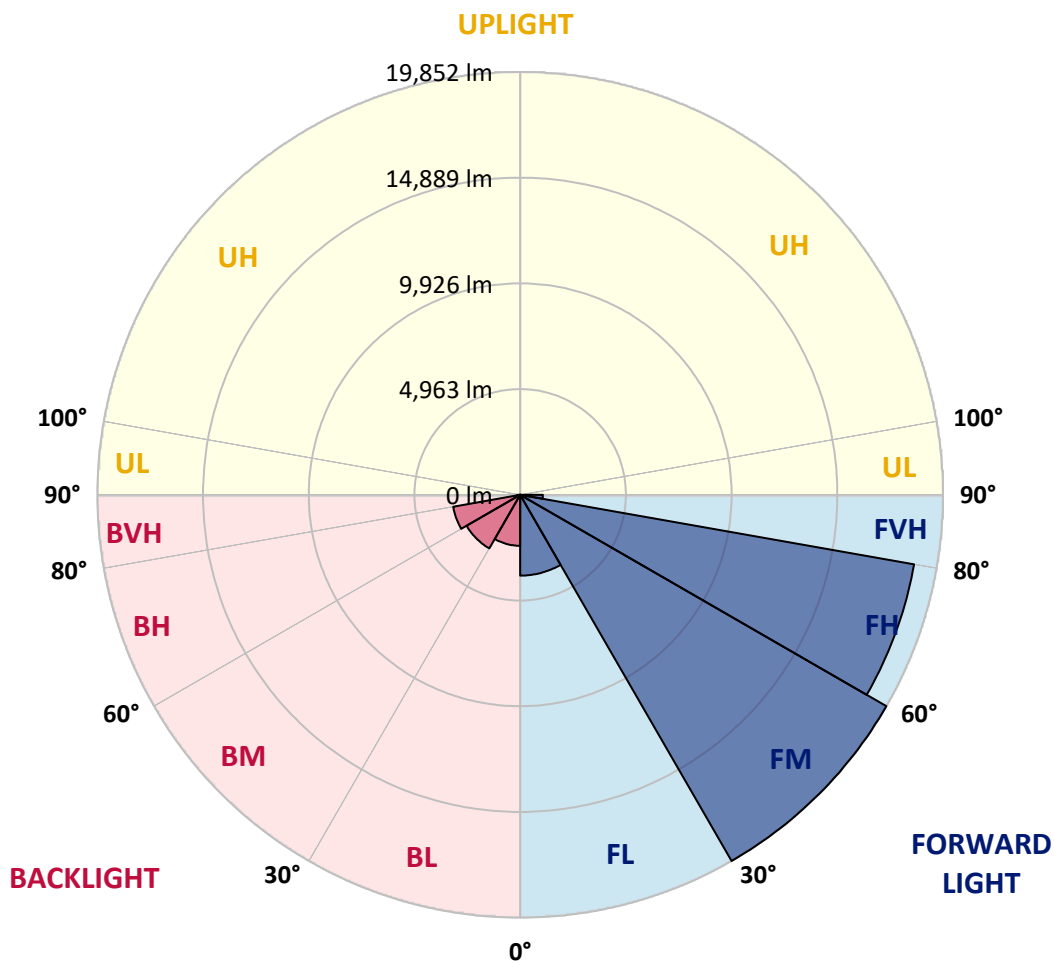
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3793.8	7.3			
FM	(30°-60°)	19852.2	38.1			
FH	(60°-80°)	18781.3	36.0			G5
FVH	(80°-90°)	1065.3	2.0			G5
BL	(0°-30°)	2394.0	4.6	B3/2500		
BM	(30°-60°)	2902.4	5.6	B3/5000		
BH	(60°-80°)	3194.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	146.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3
2.5°	10781.6	10799.6	10856.1	10892.1	11054.1	11123.5	11172.3	11221.2	11228.9	11252.0	11228.9
5°	9650.5	9689.0	9794.4	9912.7	10226.3	10473.1	10732.7	11002.7	11051.5	11226.3	11275.2
7.5°	8773.9	8763.6	8851.0	8992.4	9313.7	9655.6	10110.6	10647.9	10753.3	11146.6	11336.9
10°	8133.7	8126.0	8218.6	8365.1	8671.0	8994.9	9509.1	10244.3	10393.4	11020.7	11396.0
12.5°	7660.7	7663.3	7755.9	7917.8	8228.9	8555.3	9077.2	9853.6	10043.8	10874.1	11457.7
15°	7347.1	7367.7	7442.2	7614.5	7917.8	8244.3	8755.9	9560.5	9773.9	10758.4	11527.1
17.5°	7241.7	7275.1	7300.8	7426.8	7686.4	8012.9	8514.2	9344.6	9570.8	10678.8	11588.8
20°	7339.4	7378.0	7329.1	7372.8	7537.3	7825.3	8324.0	9174.9	9406.3	10588.8	11596.5
22.5°	7758.4	7794.4	7650.5	7524.5	7514.2	7689.0	8167.2	9041.2	9280.3	10521.9	11599.1
25°	8496.2	8519.4	8277.7	7984.6	7699.3	7640.2	8056.6	8948.7	9203.2	10462.8	11550.2
27.5°	9401.1	9419.1	9141.5	8709.6	8136.3	7755.9	8018.1	8894.7	9159.5	10411.4	11468.0
30°	10501.4	10586.2	10213.5	9668.5	8833.0	8097.8	8095.2	8866.4	9110.6	10324.0	11306.0
32.5°	11627.4	11663.3	11406.3	10853.6	9771.3	8699.3	8311.1	8887.0	9097.8	10218.6	11100.4
35°	12768.7	12815.0	12647.9	12203.2	11054.1	9581.1	8732.7	9007.8	9177.5	10182.6	10956.4
37.5°	14246.9	14308.6	14077.2	13563.1	12614.5	10776.4	9434.5	9311.1	9421.7	10285.4	10912.7
40°	16583.7	16555.4	15879.3	15113.2	14321.5	12306.0	10437.1	9825.3	9889.5	10617.1	11046.4
42.5°	19303.5	19234.1	18069.6	16866.5	16198.1	14156.9	11763.6	10717.3	10704.5	11270.0	11516.8
45°	21473.2	21416.6	20367.8	18884.5	18349.8	16264.9	13478.3	12046.4	11951.3	12306.0	12385.7
47.5°	22648.0	22650.6	22046.5	20835.7	20822.8	18943.6	15681.4	13969.3	13804.7	13971.8	13887.0
50°	22236.7	22290.7	22226.4	21840.8	23079.9	22455.2	18558.0	16650.5	16318.9	16483.4	16157.0
52.5°	20247.0	20316.4	20696.8	21288.1	24028.5	26699.5	22784.3	19982.2	19596.6	19537.4	19175.0
55°	16719.9	16804.8	17581.1	19187.8	23239.3	29550.4	29452.7	24229.0	23614.6	23056.8	22902.5
57.5°	11524.5	11665.9	12915.3	15300.9	20686.6	30411.6	37393.6	30283.0	29033.7	27085.1	27121.1
60°	6496.2	6660.7	8133.7	10300.9	15534.8	29475.8	43434.8	39452.8	36815.2	31802.3	32069.7
62.5°	4131.1	4308.5	5426.8	7156.9	9321.4	24437.2	45910.4	52201.0	48851.3	37617.3	37879.5
65°	3344.5	3421.6	3948.6	5907.5	6768.7	14722.5	44031.2	62702.3	61453.0	44997.8	43774.2
67.5°	3264.8	3290.5	3563.0	4958.9	6491.1	8275.1	35121.1	64666.4	66052.0	51889.9	46229.2
70°	3226.2	3316.2	4015.5	4732.7	6216.0	6979.5	21105.6	59283.3	61471.0	53692.0	42961.8
72.5°	1565.6	1560.4	2020.6	4280.2	7002.6	7239.1	10843.3	47967.0	50162.4	46517.1	35303.6
75°	1262.2	1154.3	1102.8	1568.1	6732.7	7475.6	6910.1	33005.4	34594.1	31187.9	21702.0
77.5°	1198.0	1069.4	979.4	982.0	2845.8	7928.1	5853.5	18267.5	18730.2	14087.5	5946.1
80°	992.3	874.0	809.8	912.6	1377.9	7550.2	6329.1	8267.4	7586.2	3460.2	1979.5
82.5°	689.0	627.3	609.3	766.1	1102.8	5380.5	7360.0	4442.2	3725.0	1732.7	1221.1
85°	439.6	375.3	416.5	557.8	858.6	2483.3	7581.0	3462.8	2753.2	1100.3	689.0
87.5°	203.1	164.5	205.7	308.5	560.4	856.0	7213.4	3889.5	2835.5	581.0	434.5
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°	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3	11244.3
2.5°	11249.5	11200.6	11162.1	11090.1	11010.4	10933.3	10863.8	10776.4	10750.7	10727.6	10763.6
5°	11285.4	11236.6	11095.2	10874.1	10629.9	10401.1	10172.3	9977.0	9856.1	9789.3	9827.8
7.5°	11339.4	11270.0	10977.0	10570.8	10131.2	9730.2	9316.3	8984.7	8740.4	8624.8	8658.2
10°	11388.3	11254.6	10776.4	10167.2	9524.5	8928.1	8275.1	7735.3	7334.3	7123.5	7174.9
12.5°	11408.8	11195.5	10496.2	9663.3	8781.6	7907.5	6946.1	6138.9	5563.0	5352.2	5308.5
15°	11429.4	11128.6	10187.7	9090.1	7884.4	6647.9	5300.8	4334.2	3856.1	3750.7	3727.5
17.5°	11434.5	11012.9	9838.1	8467.9	6833.0	5149.1	3624.7	3010.3	3012.9	3182.5	3203.1
20°	11380.6	10840.7	9414.0	7694.2	5573.3	3560.4	2488.5	2383.1	2771.2	3195.4	3246.8
22.5°	11257.2	10611.9	8933.2	6791.8	4131.1	2344.5	1925.5	2041.1	2542.4	3061.7	3120.8
25°	11100.4	10334.3	8365.1	5745.6	2735.2	1676.1	1614.4	1755.8	2095.1	2442.2	2475.6
27.5°	10887.0	10005.2	7727.6	4547.6	1776.4	1380.5	1421.6	1516.7	1655.5	1809.8	1825.2
30°	10611.9	9611.9	7046.3	3316.2	1341.9	1241.7	1300.8	1352.2	1411.3	1498.7	1506.4
32.5°	10295.7	9234.0	6347.1	2290.5	1190.2	1169.7	1215.9	1241.7	1287.9	1341.9	1347.1
35°	10030.9	8874.1	5622.2	1619.6	1126.0	1115.7	1146.5	1156.8	1200.5	1259.7	1264.8
37.5°	9879.3	8581.1	4874.1	1305.9	1082.3	1066.8	1084.8	1084.8	1146.5	1233.9	1246.8
40°	9889.5	8419.1	4126.0	1180.0	1046.3	1025.7	1028.3	1028.3	1108.0	1203.1	1210.8
42.5°	10169.8	8460.2	3462.8	1131.1	1018.0	994.9	982.0	989.7	1056.6	1118.3	1123.4
45°	10827.9	8750.7	2840.6	1100.3	989.7	982.0	953.7	951.2	976.9	1005.2	1005.2
47.5°	11907.6	9324.0	2419.0	1079.7	966.6	964.0	930.6	897.2	894.6	904.9	904.9
50°	13663.4	10311.1	2136.3	1056.6	951.2	930.6	892.0	840.6	822.6	830.3	830.3
52.5°	16295.8	12072.1	2028.3	1025.7	917.7	884.3	840.6	789.2	773.8	776.4	776.4
55°	19748.2	14776.5	2012.9	989.7	881.8	827.8	791.8	753.2	735.2	740.4	740.4
57.5°	23966.8	18516.9	2287.9	933.2	832.9	771.2	750.6	724.9	712.1	719.8	717.2
60°	29095.4	23411.5	3393.3	874.0	784.1	719.8	719.8	699.2	689.0	696.7	694.1
62.5°	35002.9	29033.7	4771.2	830.3	732.7	678.7	689.0	678.7	668.4	673.5	671.0
65°	40242.0	32696.9	4467.9	796.9	681.2	640.1	658.1	653.0	645.2	650.4	647.8
67.5°	40393.7	31339.6	2509.0	760.9	632.4	601.5	627.3	624.7	619.5	624.7	622.1
70°	36049.2	26463.0	1413.9	694.1	581.0	555.3	591.3	588.7	583.6	593.8	591.3
72.5°	28882.0	19203.3	1033.4	611.8	529.6	506.4	547.6	545.0	545.0	560.4	552.7
75°	16619.7	9881.8	825.2	524.4	475.6	457.6	493.6	496.1	501.3	521.9	506.4
77.5°	4737.8	3079.7	673.5	444.7	408.7	401.0	437.0	442.2	444.7	467.9	447.3
80°	1760.9	1419.0	555.3	372.8	334.2	336.8	370.2	377.9	380.5	403.6	377.9
82.5°	1123.4	935.7	449.9	287.9	262.2	259.6	300.8	311.1	311.1	313.6	298.2
85°	655.5	560.4	339.3	208.2	185.1	177.4	223.7	241.6	233.9	228.8	218.5
87.5°	439.6	385.6	208.2	115.7	100.3	95.1	131.1	144.0	138.8	131.1	123.4
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)