

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: P192837

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192837
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-SL2-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 50417.7 lumens
Efficiency: N/A
Efficacy: 100.6 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

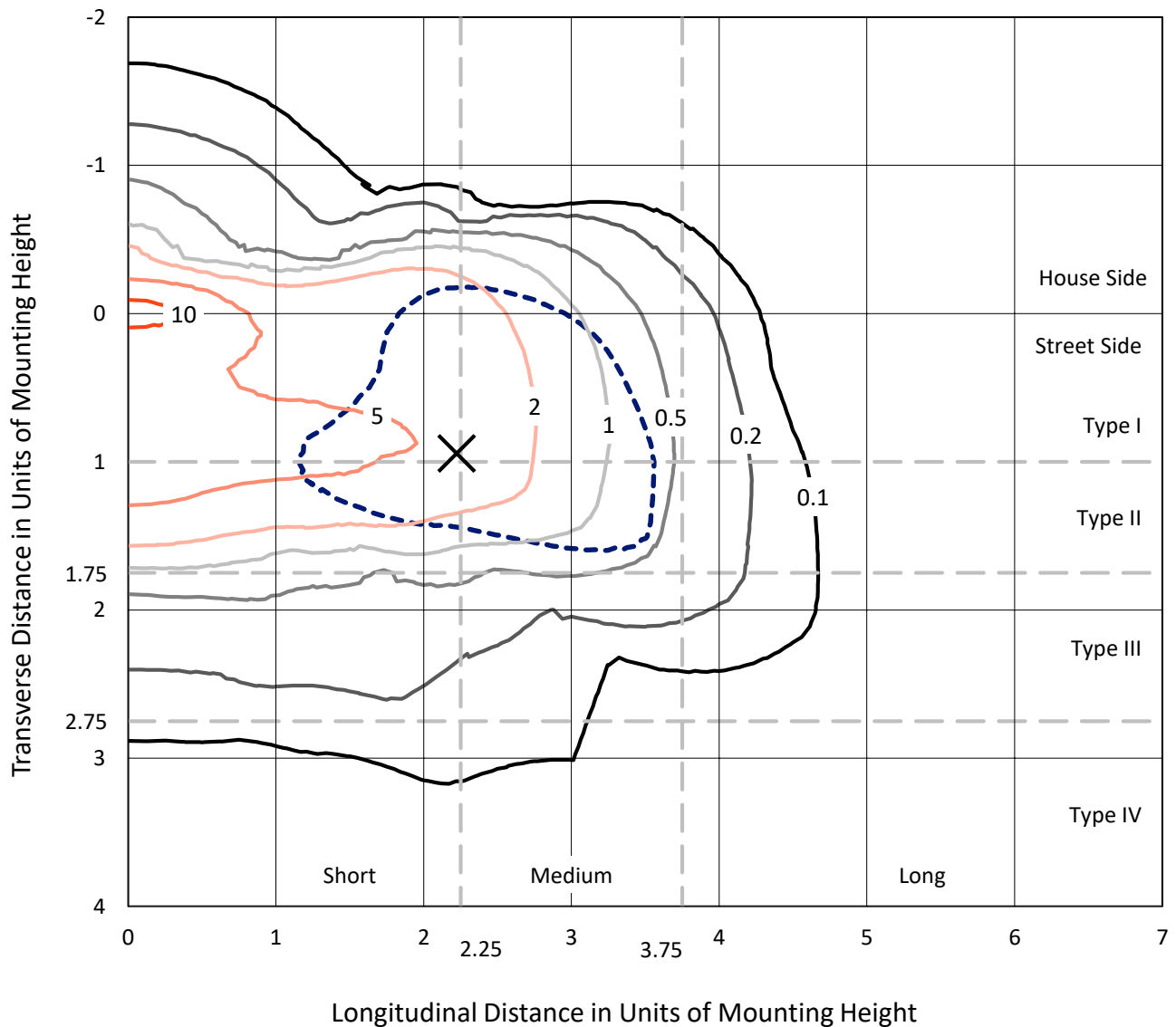
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

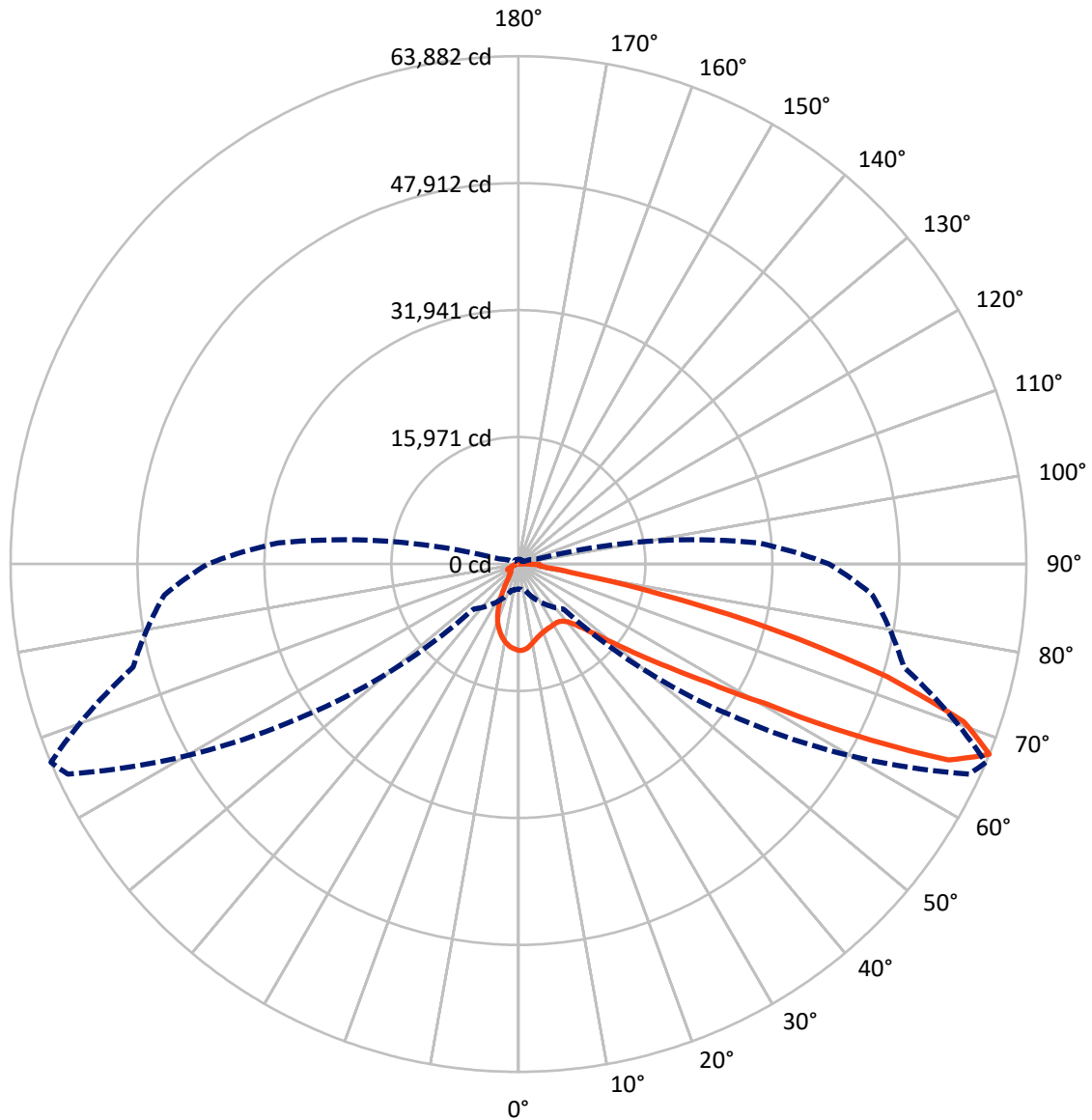
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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	8353.7	0.0	8353.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	42064.0	0.0	42064.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	50417.7	0.0	50417.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.8	1.8
10°-20°	2146.8	4.3
20°-30°	2910.0	5.8
30°-40°	4136.9	8.2
40°-50°	6921.1	13.7
50°-60°	10949.2	21.7
60°-70°	13948.2	27.7
70°-80°	7306.0	14.5
80°-90°	1171.7	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°	50417.7	100.0
0°-180°	50417.7	100.0

Coefficient of Utilization



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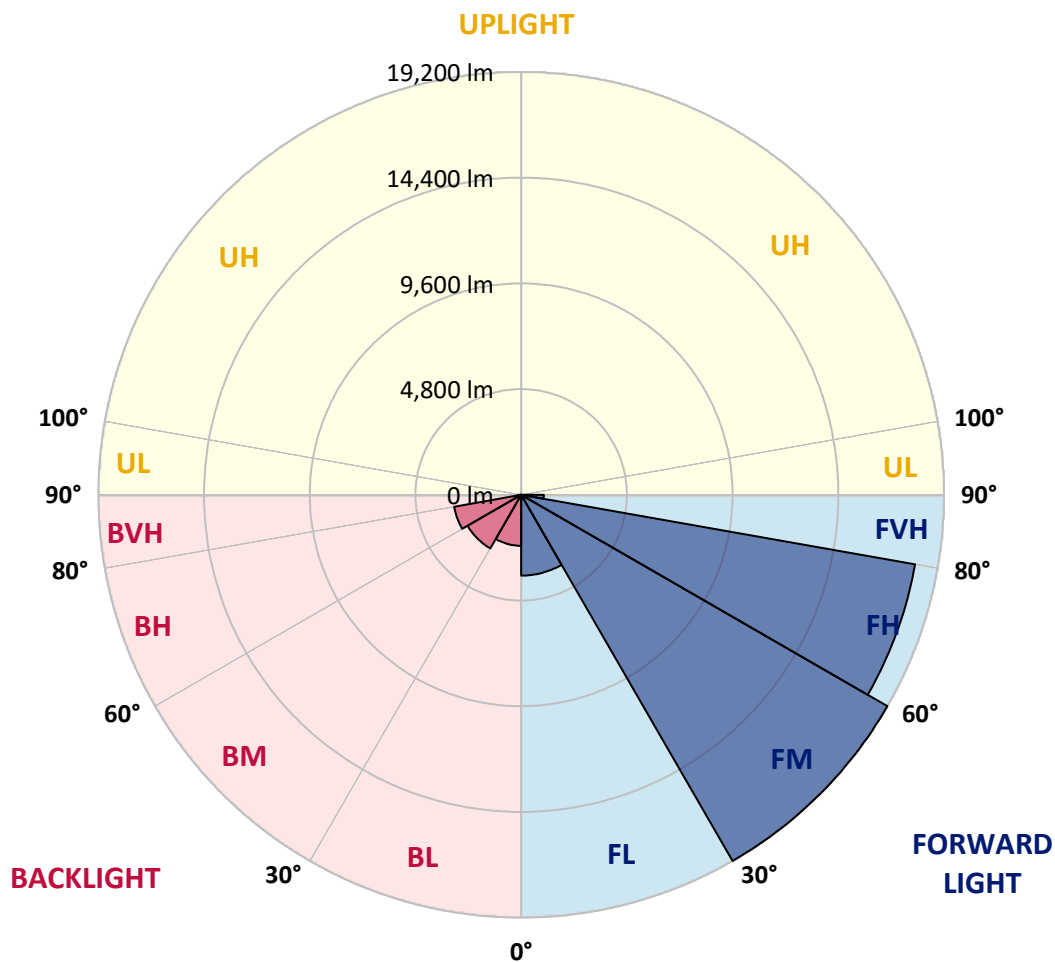
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3669.2	7.3			
FM	(30°-60°)	19200.1	38.1			
FH	(60°-80°)	18164.4	36.0			G5
FVH	(80°-90°)	1030.3	2.0			G5
BL	(0°-30°)	2315.4	4.6	B3/2500		
BM	(30°-60°)	2807.1	5.6	B3/5000		
BH	(60°-80°)	3089.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	141.4	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°	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0
2.5°	10427.4	10444.8	10499.6	10534.3	10691.0	10758.1	10805.3	10852.6	10860.1	10882.4	10860.1
5°	9333.5	9370.7	9472.7	9587.1	9890.3	10129.1	10380.1	10641.3	10688.5	10857.5	10904.8
7.5°	8485.6	8475.7	8560.3	8697.0	9007.8	9338.5	9778.4	10298.1	10400.1	10780.5	10964.5
10°	7866.5	7859.1	7948.6	8090.3	8386.2	8699.4	9196.8	9907.8	10052.0	10658.7	11021.6
12.5°	7409.1	7411.6	7501.0	7657.8	7958.6	8274.3	8779.1	9529.9	9713.9	10517.0	11081.3
15°	7105.7	7125.7	7197.8	7364.4	7657.8	7973.5	8468.2	9246.5	9452.8	10405.1	11148.5
17.5°	7003.8	7036.2	7061.0	7182.8	7434.0	7749.8	8234.6	9037.6	9256.5	10327.9	11208.2
20°	7098.3	7135.6	7088.4	7130.6	7289.8	7568.2	8050.6	8873.5	9097.3	10241.0	11215.6
22.5°	7503.6	7538.4	7399.1	7277.3	7267.4	7436.4	7898.9	8744.2	8975.4	10176.3	11218.0
25°	8217.2	8239.6	8005.9	7722.3	7446.3	7389.2	7792.1	8654.8	8901.0	10119.1	11170.8
27.5°	9092.3	9109.7	8841.1	8423.5	7869.1	7501.0	7754.6	8602.5	8858.6	10069.5	11091.2
30°	10156.4	10238.4	9878.0	9350.9	8542.9	7831.8	7829.3	8575.2	8811.3	9984.8	10934.6
32.5°	11245.4	11280.3	11031.6	10497.1	9450.4	8413.5	8038.1	8595.1	8798.9	9882.9	10735.7
35°	12349.3	12394.1	12232.4	11802.4	10691.0	9266.4	8445.8	8711.9	8876.0	9848.2	10596.5
37.5°	13778.9	13838.6	13614.8	13117.5	12200.1	10422.5	9124.7	9005.2	9112.2	9947.6	10554.2
40°	16038.9	16011.6	15357.7	14616.8	13851.1	11901.8	10094.3	9502.5	9564.7	10268.3	10683.5
42.5°	18669.4	18602.3	17476.0	16312.4	15666.0	13692.0	11377.1	10365.3	10352.9	10899.8	11138.6
45°	20767.9	20713.2	19698.8	18264.3	17747.1	15730.7	13035.5	11650.7	11558.6	11901.8	11978.8
47.5°	21904.1	21906.6	21322.3	20151.2	20138.8	18321.3	15166.3	13510.5	13351.3	13512.8	13430.9
50°	21506.3	21558.5	21496.3	21123.4	22321.7	21717.6	17948.4	16103.6	15782.8	15942.0	15626.3
52.5°	19581.9	19649.0	20017.1	20588.9	23239.2	25822.5	22035.9	19325.8	18952.8	18895.8	18545.1
55°	16170.7	16252.8	17003.7	18557.5	22475.9	28579.7	28485.3	23433.2	22838.9	22299.4	22150.2
57.5°	11146.0	11282.7	12491.1	14798.3	20007.0	29412.6	36165.4	29288.4	28079.9	26195.5	26230.2
60°	6282.9	6441.9	7866.5	9962.5	15024.6	28507.6	42008.1	38156.8	35606.0	30757.7	31016.3
62.5°	3995.4	4167.0	5248.5	6921.8	9015.2	23634.5	44402.4	50486.3	47246.7	36381.7	36635.2
65°	3234.6	3309.3	3818.9	5713.5	6546.4	14238.8	42584.9	60642.7	59434.5	43519.8	42336.4
67.5°	3157.6	3182.4	3445.9	4796.1	6277.8	8003.4	33967.5	62542.3	63882.4	50185.5	44710.7
70°	3120.2	3207.3	3883.5	4577.2	6011.8	6750.2	20412.4	57336.0	59451.8	51928.4	41550.6
72.5°	1514.2	1509.2	1954.2	4139.7	6772.7	7001.4	10487.1	46391.4	48514.7	44989.1	34144.1
75°	1220.8	1116.3	1066.6	1516.6	6511.6	7230.1	6683.1	31921.3	33457.8	30163.5	20989.1
77.5°	1158.5	1034.2	947.3	949.8	2752.3	7667.7	5661.3	17667.4	18114.9	13624.7	5750.8
80°	959.8	845.3	783.2	882.6	1332.6	7302.3	6121.2	7995.8	7337.0	3346.5	1914.4
82.5°	666.4	606.6	589.2	740.9	1066.6	5203.8	7118.2	4296.3	3602.6	1675.7	1181.0
85°	425.1	363.0	402.7	539.5	830.4	2401.7	7332.1	3349.1	2662.7	1064.0	666.4
87.5°	196.4	159.1	198.9	298.4	542.0	827.9	6976.5	3761.7	2742.4	561.9	420.2
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°	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0	10875.0
2.5°	10879.9	10832.7	10795.4	10725.8	10648.7	10574.1	10507.0	10422.5	10397.6	10375.3	10410.0
5°	10914.8	10867.5	10730.8	10517.0	10280.8	10059.5	9838.1	9649.2	9532.5	9467.8	9505.0
7.5°	10967.0	10899.8	10616.4	10223.6	9798.4	9410.5	9010.3	8689.5	8453.4	8341.5	8373.7
10°	11014.2	10885.0	10422.5	9833.3	9211.6	8634.9	8003.4	7481.2	7093.3	6889.5	6939.2
12.5°	11034.1	10827.7	10151.5	9345.9	8493.2	7647.8	6718.0	5937.2	5380.3	5176.3	5134.2
15°	11054.0	10763.1	9853.1	8791.4	7625.4	6429.5	5126.7	4191.8	3729.4	3627.5	3605.1
17.5°	11059.0	10651.2	9515.0	8189.7	6608.5	4980.0	3505.7	2911.4	2914.0	3078.1	3097.9
20°	11006.8	10484.6	9104.8	7441.4	5390.2	3443.6	2406.8	2304.9	2680.2	3090.4	3140.2
22.5°	10887.3	10263.4	8639.7	6568.7	3995.4	2267.4	1862.3	1974.1	2458.9	2961.2	3018.3
25°	10735.7	9994.8	8090.3	5556.8	2645.3	1621.1	1561.5	1698.1	2026.3	2361.9	2394.3
27.5°	10529.5	9676.5	7473.8	4398.2	1718.0	1335.1	1374.9	1467.0	1601.2	1750.4	1765.3
30°	10263.4	9296.3	6814.9	3207.3	1297.8	1200.9	1258.0	1307.9	1364.9	1449.6	1457.0
32.5°	9957.6	8930.8	6138.6	2215.2	1151.1	1131.3	1175.9	1200.9	1245.7	1297.8	1302.8
35°	9701.4	8582.7	5437.5	1566.3	1089.0	1079.1	1108.9	1118.9	1161.1	1218.2	1223.2
37.5°	9554.7	8299.3	4714.0	1263.0	1046.7	1031.9	1049.2	1049.2	1108.9	1193.4	1205.9
40°	9564.7	8142.5	3990.4	1141.2	1012.0	992.1	994.5	994.5	1071.7	1163.6	1171.0
42.5°	9835.7	8182.3	3349.1	1094.0	984.5	962.1	949.8	957.2	1021.9	1081.5	1086.5
45°	10472.2	8463.3	2747.4	1064.0	957.2	949.8	922.3	920.0	944.8	972.1	972.1
47.5°	11516.5	9017.7	2339.6	1044.2	934.8	932.3	900.1	867.7	865.3	875.1	875.1
50°	13214.6	9972.4	2066.1	1021.9	920.0	900.1	862.7	813.0	795.6	803.0	803.0
52.5°	15760.5	11675.6	1961.6	992.1	887.6	855.3	813.0	763.2	748.3	750.8	750.8
55°	19099.6	14291.1	1946.8	957.2	852.8	800.6	765.8	728.4	711.1	716.0	716.0
57.5°	23179.6	17908.6	2212.8	902.5	805.6	745.9	726.0	701.1	688.7	696.2	693.7
60°	28139.7	22642.6	3281.9	845.3	758.4	696.2	696.2	676.4	666.4	673.8	671.3
62.5°	33853.1	28079.9	4614.6	803.0	708.5	656.4	666.4	656.4	646.4	651.4	648.9
65°	38920.2	31622.9	4321.1	770.8	658.9	619.1	636.4	631.5	624.1	629.0	626.5
67.5°	39066.8	30310.1	2426.6	736.0	611.7	581.8	606.6	604.2	599.2	604.2	601.7
70°	34865.0	25593.8	1367.5	671.3	561.9	537.0	571.9	569.4	564.5	574.3	571.9
72.5°	27933.3	18572.4	999.5	591.7	512.2	489.8	529.6	527.0	527.0	542.0	534.5
75°	16073.7	9557.2	798.1	507.2	460.0	442.6	477.4	479.8	484.8	504.7	489.8
77.5°	4582.3	2978.5	651.4	430.2	395.3	387.9	422.7	427.6	430.2	452.6	432.5
80°	1703.2	1372.4	537.0	360.5	323.2	325.7	358.1	365.5	367.9	390.4	365.5
82.5°	1086.5	905.0	435.1	278.5	253.6	251.1	290.8	300.8	300.8	303.3	288.5
85°	634.0	542.0	328.3	201.4	178.9	171.5	216.4	233.7	226.2	221.2	211.3
87.5°	425.1	372.9	201.4	111.9	96.9	92.0	126.8	139.2	134.3	126.8	119.3
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)