

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: P267229

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267229
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-SL2-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 49683.6 lumens
Efficiency: N/A
Efficacy: 86.4 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): 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: 28.75 FT

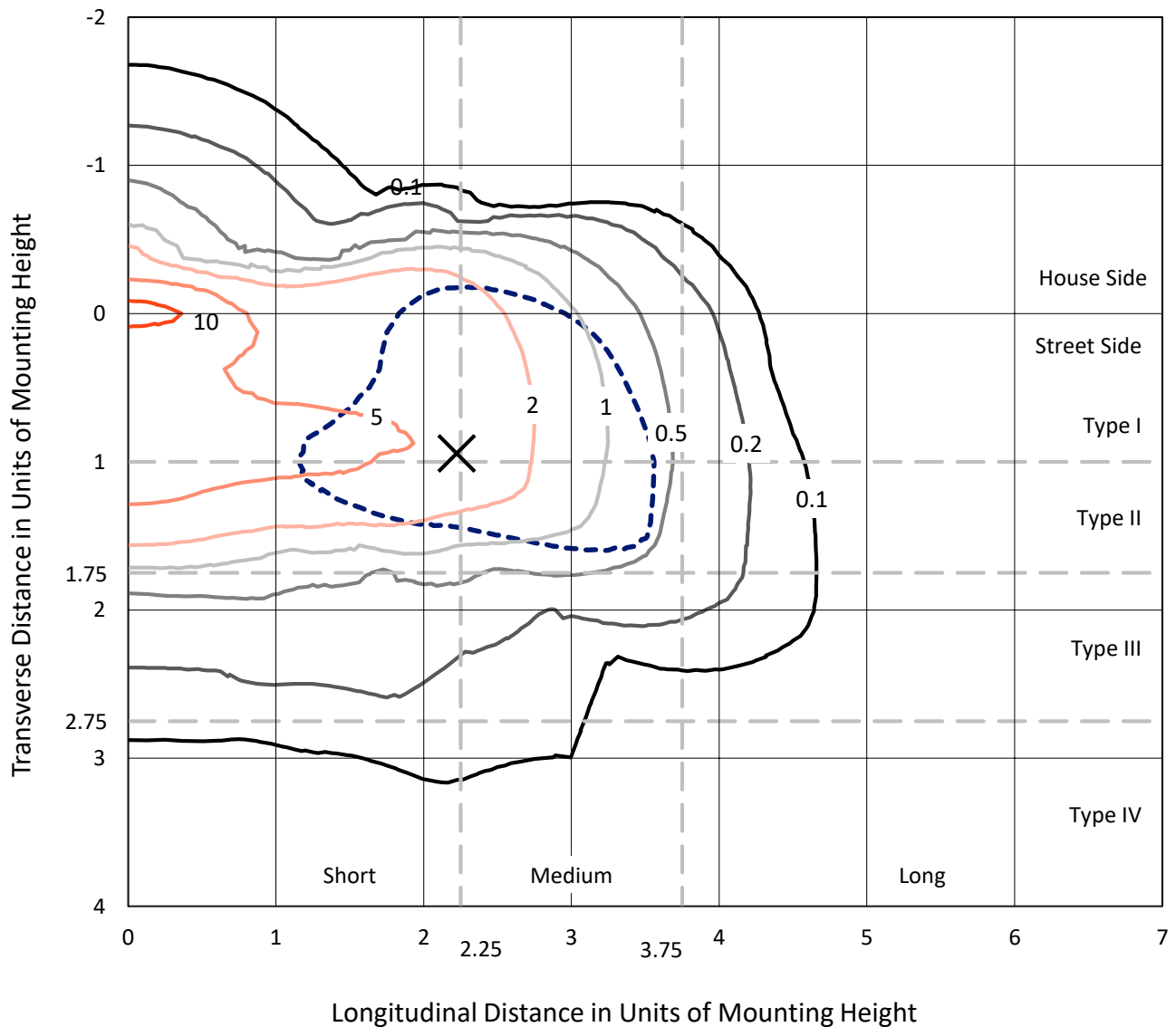


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

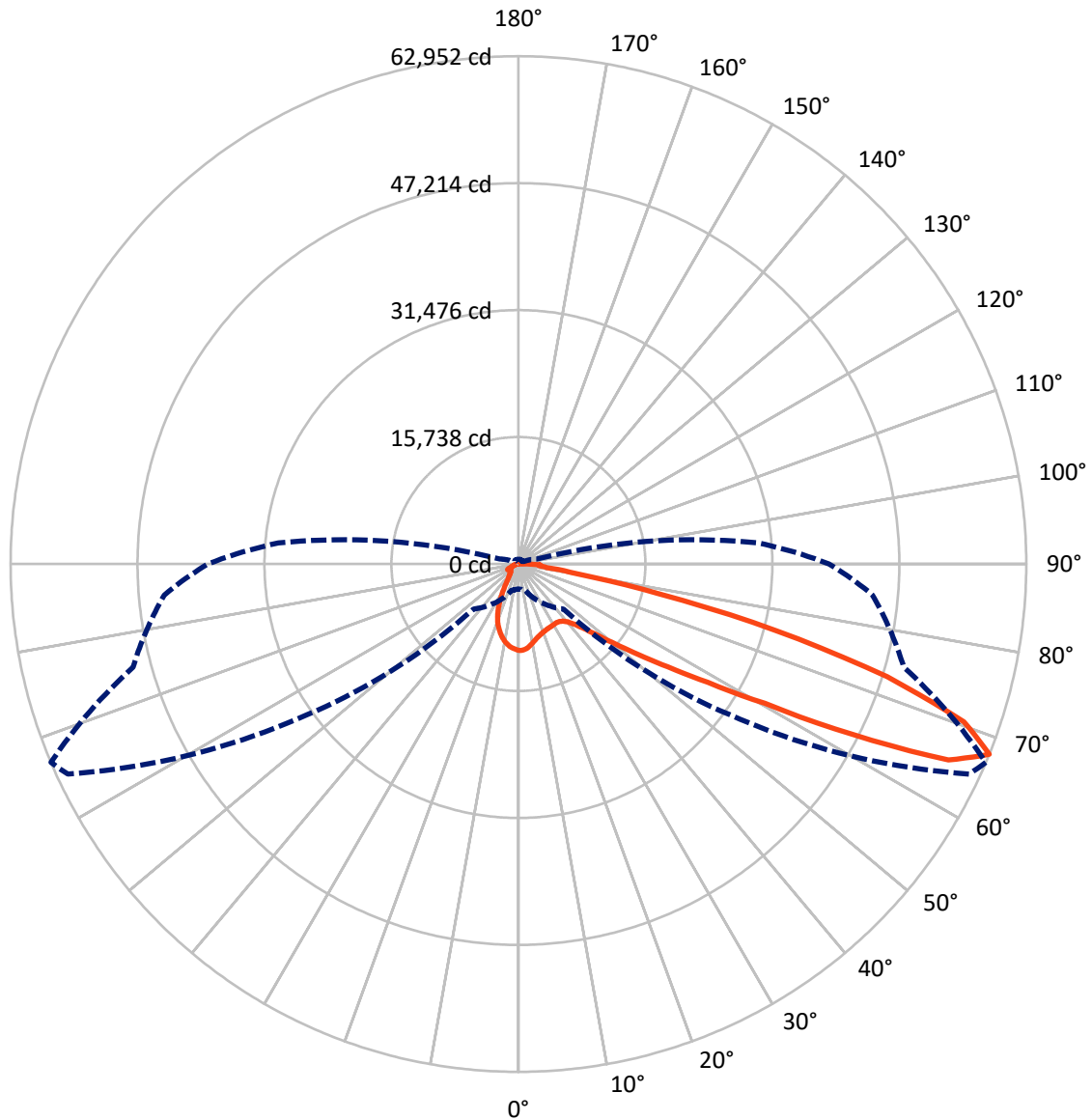


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Semi-Cutoff

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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	8232.0	0.0	8232.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	41451.6	0.0	41451.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	49683.6	0.0	49683.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.3	1.8
10°-20°	2115.5	4.3
20°-30°	2867.6	5.8
30°-40°	4076.6	8.2
40°-50°	6820.4	13.7
50°-60°	10789.8	21.7
60°-70°	13745.1	27.7
70°-80°	7199.6	14.5
80°-90°	1154.7	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°	49683.6	100.0
0°-180°	49683.6	100.0

Coefficient of Utilization



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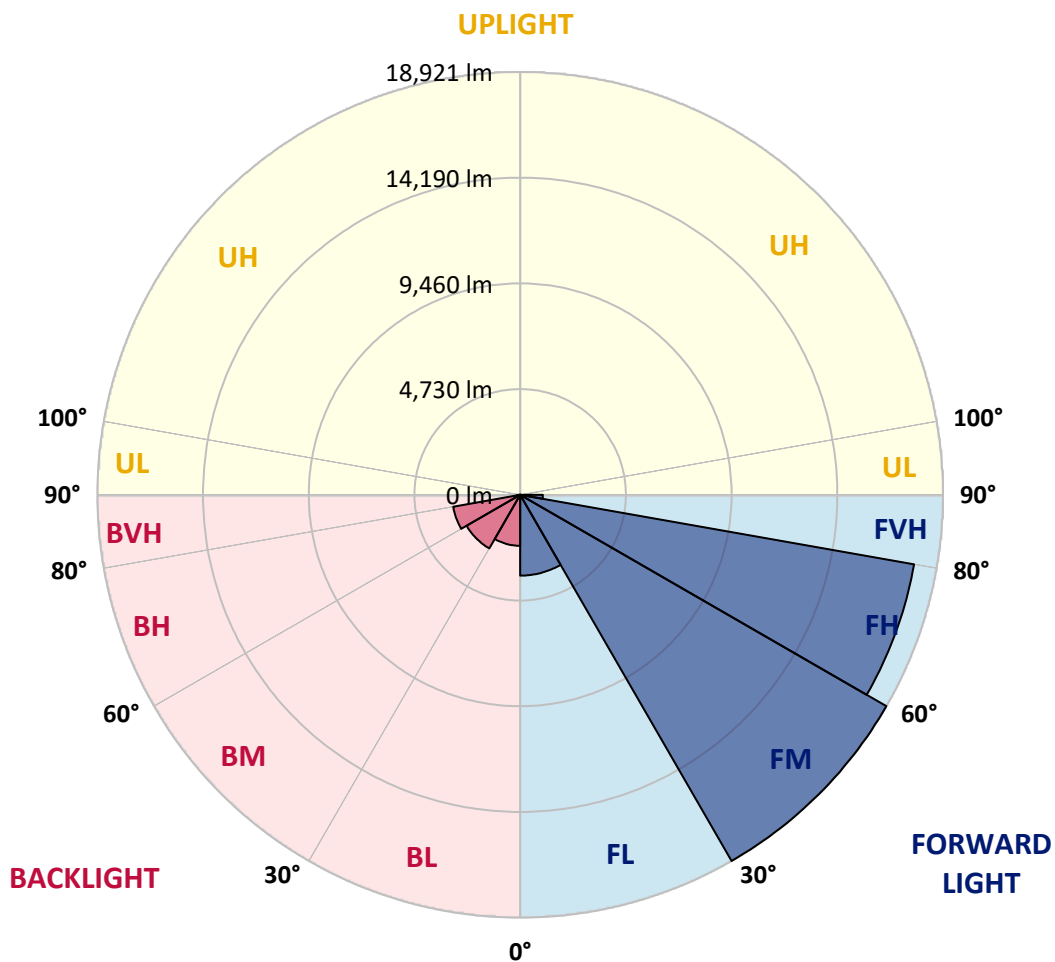
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3615.8	7.3			
FM	(30°-60°)	18920.5	38.1			
FH	(60°-80°)	17900.0	36.0			G5
FVH	(80°-90°)	1015.3	2.0			G5
BL	(0°-30°)	2281.7	4.6	B3/2500		
BM	(30°-60°)	2766.2	5.6	B3/5000		
BH	(60°-80°)	3044.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	139.4	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°	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6
2.5°	10275.6	10292.8	10346.7	10381.0	10535.3	10601.4	10648.0	10694.6	10701.9	10724.0	10701.9
5°	9197.6	9234.3	9334.7	9447.5	9746.4	9981.5	10229.1	10486.4	10532.8	10699.5	10746.1
7.5°	8362.1	8352.4	8435.7	8570.4	8876.6	9202.4	9636.2	10148.2	10248.7	10623.5	10804.9
10°	7752.1	7744.6	7833.0	7972.5	8264.0	8572.9	9062.8	9763.6	9905.6	10503.4	10861.1
12.5°	7301.2	7303.7	7391.9	7546.2	7842.7	8153.8	8651.1	9391.2	9572.5	10363.8	10919.9
15°	7002.3	7022.0	7092.9	7257.0	7546.2	7857.4	8345.0	9111.8	9315.2	10253.6	10986.1
17.5°	6901.9	6933.7	6958.2	7078.3	7325.7	7636.9	8114.7	8906.1	9121.6	10177.5	11044.9
20°	6994.9	7031.8	6985.2	7026.8	7183.7	7458.0	7933.3	8744.3	8964.8	10091.9	11052.2
22.5°	7394.3	7428.7	7291.5	7171.3	7161.6	7328.2	7784.0	8616.9	8844.8	10028.1	11054.7
25°	8097.5	8119.5	7889.3	7609.9	7338.0	7281.7	7678.5	8528.7	8771.3	9971.7	11008.2
27.5°	8960.0	8977.1	8712.5	8300.9	7754.4	7391.9	7641.8	8477.2	8729.5	9922.8	10929.8
30°	10008.6	10089.5	9734.2	9214.8	8418.5	7717.8	7715.4	8450.3	8683.0	9839.5	10775.3
32.5°	11081.8	11115.9	10871.0	10344.3	9312.6	8291.0	7921.1	8469.8	8670.8	9739.1	10579.3
35°	12169.5	12213.6	12054.4	11630.4	10535.3	9131.5	8322.8	8585.0	8746.7	9704.7	10442.2
37.5°	13578.3	13637.1	13416.6	12926.6	12022.6	10270.7	8991.8	8874.1	8979.5	9802.8	10400.5
40°	15805.4	15778.5	15134.1	14404.1	13649.3	11728.5	9947.3	9364.2	9425.5	10118.8	10528.0
42.5°	18397.6	18331.4	17221.5	16074.9	15437.9	13492.5	11211.6	10214.4	10202.1	10741.2	10976.3
45°	20465.5	20411.6	19412.0	17998.3	17488.7	15501.6	12845.8	11481.1	11390.4	11728.5	11804.4
47.5°	21585.2	21587.6	21011.8	19857.8	19845.5	18054.7	14945.5	13313.7	13156.8	13316.1	13235.3
50°	21193.2	21244.6	21183.3	20815.9	21996.7	21401.4	17687.1	15869.1	15553.1	15709.9	15398.7
52.5°	19296.9	19363.0	19725.5	20289.1	22900.9	25446.5	21715.0	19044.4	18676.9	18620.5	18275.1
55°	15935.3	16016.2	16756.1	18287.3	22148.7	28163.7	28070.4	23091.9	22506.3	21974.7	21827.7
57.5°	10983.7	11118.4	12309.1	14582.8	19715.7	28984.4	35638.7	28861.9	27671.1	25814.0	25848.3
60°	6191.4	6348.1	7752.1	9817.4	14805.9	28092.5	41396.5	37601.3	35087.4	30309.9	30564.7
62.5°	3937.4	4106.3	5172.1	6821.0	8884.0	23290.4	43755.9	49751.2	46558.8	35852.0	36101.9
65°	3187.5	3261.0	3763.3	5630.2	6451.1	14031.5	41965.0	59759.7	58569.0	42886.2	41719.9
67.5°	3111.5	3136.2	3395.9	4726.3	6186.4	7886.8	33473.0	61631.6	62952.2	49454.7	44059.7
70°	3074.9	3160.5	3827.0	4510.6	5924.3	6651.9	20115.0	56501.1	58586.2	51172.3	40945.6
72.5°	1492.1	1487.2	1925.7	4079.4	6674.0	6899.4	10334.5	45716.0	47808.2	44334.1	33646.8
75°	1203.0	1100.1	1051.0	1494.5	6416.8	7124.7	6585.8	31456.5	32970.6	29724.2	20683.6
77.5°	1141.7	1019.2	933.5	935.9	2712.3	7556.1	5578.8	17410.2	17851.3	13426.3	5667.0
80°	945.7	833.0	771.7	869.7	1313.2	7195.9	6032.1	7879.5	7230.2	3297.8	1886.6
82.5°	656.7	597.8	580.7	730.1	1051.0	5128.1	7014.5	4233.7	3550.1	1651.4	1163.8
85°	419.0	357.7	397.0	531.6	818.4	2366.8	7225.2	3300.3	2623.9	1048.6	656.7
87.5°	193.6	156.8	196.0	294.0	534.1	815.9	6874.9	3706.9	2702.5	553.7	414.1
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°	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6	10716.6
2.5°	10721.5	10675.0	10638.2	10569.5	10493.7	10420.2	10354.0	10270.7	10246.2	10224.1	10258.5
5°	10755.9	10709.2	10574.5	10363.8	10131.1	9912.9	9695.0	9508.6	9393.5	9329.8	9366.6
7.5°	10807.2	10741.2	10461.8	10074.8	9655.7	9273.6	8879.0	8563.1	8330.3	8220.0	8251.8
10°	10853.9	10726.4	10270.7	9690.0	9077.6	8509.1	7886.8	7372.3	6990.2	6789.2	6838.2
12.5°	10873.4	10670.1	10003.6	9209.9	8369.5	7536.4	6620.1	5850.8	5301.9	5101.0	5059.4
15°	10893.0	10606.4	9709.6	8663.4	7514.4	6335.8	5052.1	4130.9	3675.1	3574.6	3552.5
17.5°	10898.0	10496.2	9376.4	8070.6	6512.4	4907.5	3454.6	2869.0	2871.5	3033.1	3052.8
20°	10846.5	10331.9	8972.2	7333.0	5311.8	3393.3	2371.6	2271.3	2641.1	3045.4	3094.4
22.5°	10728.8	10113.8	8514.0	6473.0	3937.4	2234.4	1835.1	1945.4	2423.1	2918.1	2974.4
25°	10579.3	9849.2	7972.5	5475.9	2606.9	1597.5	1538.6	1673.5	1996.8	2327.6	2359.4
27.5°	10376.1	9535.7	7364.9	4334.2	1692.9	1315.7	1355.0	1445.6	1577.9	1724.8	1739.6
30°	10113.8	9160.8	6715.6	3160.5	1278.9	1183.3	1239.8	1288.8	1345.1	1428.3	1435.8
32.5°	9812.5	8800.6	6049.2	2183.1	1134.4	1114.7	1159.0	1183.3	1227.4	1278.9	1283.9
35°	9560.2	8457.6	5358.3	1543.6	1073.1	1063.4	1092.8	1102.5	1144.3	1200.6	1205.4
37.5°	9415.7	8178.3	4645.3	1244.6	1031.4	1016.8	1033.9	1033.9	1092.8	1176.1	1188.3
40°	9425.5	8024.0	3932.4	1124.6	997.2	977.5	980.1	980.1	1056.0	1146.6	1154.1
42.5°	9692.5	8063.1	3300.3	1078.1	970.2	948.3	935.9	943.3	1007.0	1065.7	1070.7
45°	10319.6	8340.0	2707.3	1048.6	943.3	935.9	908.9	906.5	931.1	958.0	958.0
47.5°	11348.7	8886.5	2305.5	1029.0	921.2	918.7	886.9	855.0	852.6	862.5	862.5
50°	13022.1	9827.3	2036.0	1007.0	906.5	886.9	850.2	801.2	784.0	791.3	791.3
52.5°	15531.1	11505.5	1933.2	977.5	874.7	842.8	801.2	752.2	737.5	739.9	739.9
55°	18821.5	14083.0	1918.4	943.3	840.4	788.9	754.7	717.8	700.7	705.6	705.6
57.5°	22842.0	17647.9	2180.5	889.4	793.8	735.1	715.4	690.9	678.7	686.0	683.6
60°	27729.9	22312.8	3234.1	833.0	747.3	686.0	686.0	666.5	656.7	663.9	661.5
62.5°	33360.3	27671.1	4547.3	791.3	698.3	646.8	656.7	646.8	637.0	641.8	639.5
65°	38353.4	31162.6	4258.2	759.5	649.3	610.0	627.2	622.3	615.0	619.9	617.5
67.5°	38498.0	29868.9	2391.3	725.2	602.8	573.3	597.8	595.3	590.5	595.3	592.9
70°	34357.4	25221.1	1347.5	661.5	553.7	529.2	563.4	561.1	556.2	565.9	563.4
72.5°	27526.7	18302.1	984.9	583.1	504.7	482.7	521.8	519.4	519.4	534.1	526.8
75°	15839.8	9418.1	786.5	499.7	453.3	436.0	470.4	472.9	477.8	497.3	482.7
77.5°	4515.5	2935.2	641.8	423.9	389.5	382.1	416.5	421.5	423.9	445.9	426.3
80°	1678.4	1352.5	529.2	355.3	318.4	321.0	352.9	360.2	362.6	384.7	360.2
82.5°	1070.7	891.8	428.9	274.4	249.9	247.5	286.6	296.5	296.5	298.9	284.3
85°	624.9	534.1	323.4	198.4	176.3	169.1	213.2	230.3	223.0	218.1	208.2
87.5°	419.0	367.4	198.4	110.2	95.6	90.6	125.0	137.3	132.3	125.0	117.6
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)