

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: P268910

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268910
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-10-LED-U-SL2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 55008.1 lumens
Efficiency: N/A
Efficacy: 86.0 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): 640
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

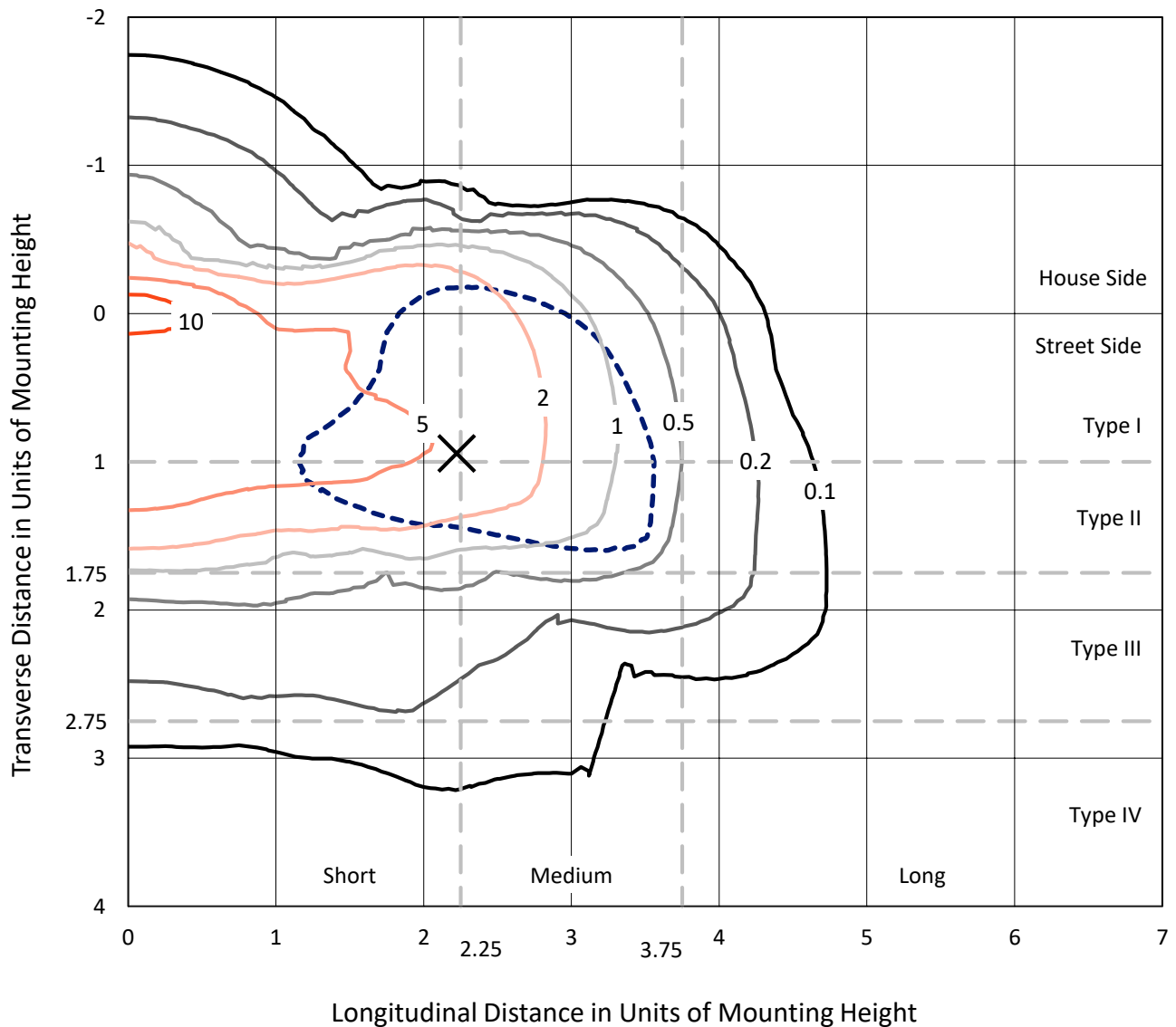


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

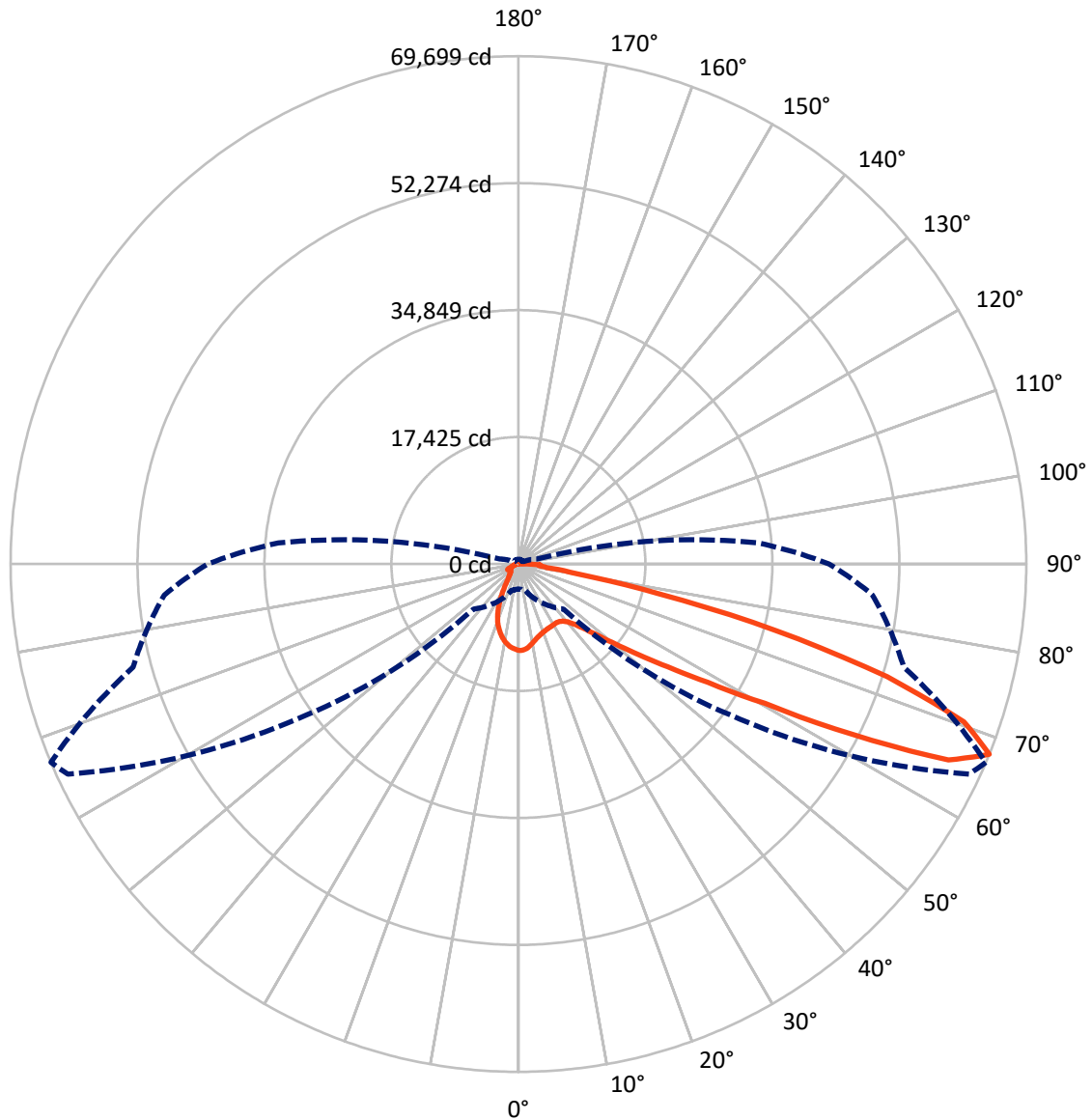


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Semi-Cutoff

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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	9114.2	0.0	9114.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	45893.9	0.0	45893.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	55008.1	0.0	55008.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.3	1.8
10°-20°	2342.2	4.3
20°-30°	3175.0	5.8
30°-40°	4513.5	8.2
40°-50°	7551.3	13.7
50°-60°	11946.1	21.7
60°-70°	15218.1	27.7
70°-80°	7971.2	14.5
80°-90°	1278.4	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°	55008.1	100.0
0°-180°	55008.1	100.0

Coefficient of Utilization



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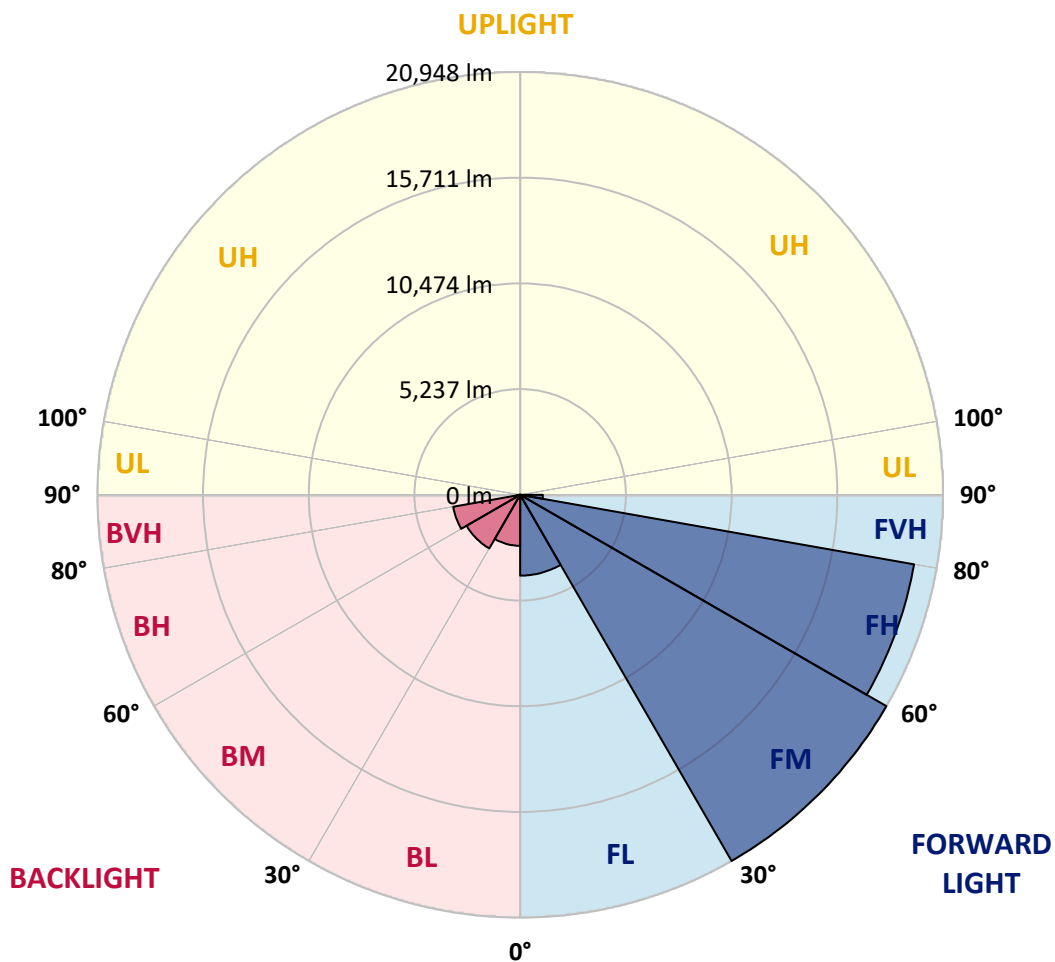
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4003.3	7.3			
FM	(30°-60°)	20948.2	38.1			
FH	(60°-80°)	19818.3	36.0			G5
FVH	(80°-90°)	1124.1	2.0			G5
BL	(0°-30°)	2526.2	4.6	B4/5000		
BM	(30°-60°)	3062.7	5.6	B3/5000		
BH	(60°-80°)	3371.1	6.1	B4/5000		G4/5000
BVH	(80°-90°)	154.3	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°	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2
2.5°	11376.9	11395.8	11455.5	11493.5	11664.4	11737.7	11789.1	11840.6	11848.9	11873.3	11848.9
5°	10183.2	10224.0	10335.2	10460.0	10790.9	11051.3	11325.3	11610.1	11661.6	11846.0	11897.7
7.5°	9258.2	9247.4	9339.7	9488.8	9827.8	10188.7	10668.8	11235.8	11347.0	11762.0	11962.8
10°	8582.9	8574.7	8672.3	8826.9	9149.7	9491.5	10034.1	10809.9	10967.2	11629.1	12025.3
12.5°	8083.7	8086.5	8184.1	8355.0	8683.1	9027.6	9578.4	10397.6	10598.4	11474.5	12090.3
15°	7752.7	7774.4	7853.2	8034.9	8355.0	8699.5	9239.2	10088.3	10313.5	11352.4	12163.5
17.5°	7641.5	7676.7	7704.0	7836.9	8110.7	8455.3	8984.3	9860.4	10099.1	11268.2	12228.5
20°	7744.6	7785.3	7733.8	7780.0	7953.5	8257.3	8783.5	9681.5	9925.6	11173.4	12236.7
22.5°	8186.8	8224.7	8072.9	7939.8	7929.1	8113.5	8618.1	9540.4	9792.7	11102.8	12239.4
25°	8965.4	8989.7	8734.7	8425.6	8124.5	8062.0	8501.4	9442.8	9711.2	11040.4	12187.9
27.5°	9920.2	9939.1	9646.2	9190.5	8585.6	8184.1	8460.7	9385.8	9665.1	10986.2	12101.1
30°	11081.1	11170.7	10777.3	10202.3	9320.6	8544.9	8542.2	9355.8	9613.7	10893.9	11930.2
32.5°	12269.3	12307.3	12036.0	11452.9	10310.7	9179.6	8770.1	9377.6	9600.0	10782.7	11713.2
35°	13473.7	13522.5	13346.2	12876.9	11664.4	10110.1	9214.9	9505.1	9684.2	10744.7	11561.2
37.5°	15033.5	15098.6	14854.5	14311.9	13310.9	11371.5	9955.3	9825.2	9941.8	10853.3	11515.3
40°	17499.3	17469.5	16756.1	15947.6	15112.1	12985.4	11013.3	10367.8	10435.5	11203.2	11656.2
42.5°	20369.2	20296.0	19067.2	17797.7	17092.4	14938.5	12413.0	11309.0	11295.5	11892.2	12152.7
45°	22658.8	22599.1	21492.3	19927.1	19362.8	17162.8	14222.4	12711.5	12611.0	12985.4	13069.5
47.5°	23898.4	23901.2	23263.6	21985.9	21972.5	19989.5	16547.1	14740.5	14566.9	14743.3	14653.7
50°	23464.4	23521.4	23453.6	23046.6	24354.2	23695.0	19582.6	17569.8	17219.9	17393.5	17049.0
52.5°	21364.7	21438.1	21839.6	22463.5	25355.1	28173.5	24042.1	21085.3	20678.5	20616.1	20233.7
55°	17643.0	17732.5	18551.7	20247.2	24522.3	31181.8	31078.8	25566.8	24918.4	24329.8	24166.9
57.5°	12160.7	12310.1	13628.4	16145.6	21828.6	32090.6	39458.1	31955.0	30636.7	28580.5	28618.5
60°	6854.8	7028.5	8582.9	10869.6	16392.5	31103.3	45832.9	41631.1	38847.8	33558.2	33840.3
62.5°	4359.3	4546.4	5726.3	7552.1	9836.0	25786.4	48445.1	55083.0	51548.3	39694.1	39970.9
65°	3529.1	3610.6	4166.6	6233.7	7142.5	15535.3	46462.2	66164.1	64845.8	47482.3	46190.9
67.5°	3445.1	3472.2	3759.8	5232.6	6849.4	8732.1	37060.1	68236.6	69698.8	54754.7	48781.5
70°	3404.3	3499.3	4237.1	4993.9	6559.2	7364.8	22270.8	62556.3	64864.9	56656.3	45333.8
72.5°	1652.1	1646.6	2132.1	4516.6	7389.3	7638.7	11441.9	50615.3	52931.9	49085.4	37252.8
75°	1331.8	1218.0	1163.8	1654.7	7104.4	7888.3	7291.6	34827.6	36504.1	32909.9	22900.1
77.5°	1264.0	1128.5	1033.5	1036.3	3002.9	8365.7	6176.7	19276.1	19764.4	14865.3	6274.3
80°	1047.1	922.3	854.5	963.1	1453.9	7967.1	6678.4	8723.9	8005.1	3651.3	2088.6
82.5°	727.0	662.0	642.8	808.4	1163.8	5677.6	7766.2	4687.4	3930.7	1828.3	1288.4
85°	463.9	396.1	439.5	588.7	906.0	2620.4	7999.5	3653.9	2905.3	1161.0	727.0
87.5°	214.2	173.6	217.0	325.5	591.4	903.3	7611.7	4104.3	2992.1	613.1	458.5
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°	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2	11865.2
2.5°	11870.6	11819.0	11778.2	11702.4	11618.3	11536.9	11463.6	11371.5	11344.2	11319.9	11357.8
5°	11908.6	11857.0	11707.8	11474.5	11216.7	10975.3	10733.9	10527.7	10400.2	10329.8	10370.5
7.5°	11965.5	11892.2	11582.9	11154.4	10690.5	10267.4	9830.6	9480.7	9223.0	9100.9	9136.2
10°	12017.0	11876.0	11371.5	10728.5	10050.3	9421.1	8732.1	8162.4	7739.2	7516.7	7570.9
12.5°	12038.7	11813.6	11075.7	10196.8	9266.3	8344.0	7329.6	6477.8	5870.2	5647.7	5601.7
15°	12060.5	11743.1	10750.2	9591.9	8319.7	7015.0	5593.4	4573.5	4069.0	3957.8	3933.4
17.5°	12065.9	11621.0	10381.4	8935.5	7210.2	5433.4	3824.9	3176.4	3179.2	3358.3	3380.0
20°	12008.9	11439.2	9933.6	8118.9	5881.1	3757.0	2625.8	2514.6	2924.3	3371.8	3426.0
22.5°	11878.6	11197.8	9426.5	7166.8	4359.3	2473.9	2031.7	2153.9	2682.8	3230.8	3293.1
25°	11713.2	10904.9	8826.9	6062.8	2886.3	1768.7	1703.5	1852.8	2210.8	2577.0	2612.4
27.5°	11488.1	10557.6	8154.3	4798.7	1874.5	1456.7	1500.1	1600.5	1746.9	1909.6	1926.0
30°	11197.8	10142.7	7435.5	3499.3	1416.0	1310.2	1372.6	1426.9	1489.2	1581.5	1589.6
32.5°	10864.1	9743.8	6697.6	2417.0	1256.0	1234.2	1283.0	1310.2	1359.0	1416.0	1421.4
35°	10584.8	9364.0	5932.5	1708.9	1188.2	1177.3	1209.8	1220.6	1266.8	1329.2	1334.6
37.5°	10424.7	9054.8	5143.2	1378.0	1142.0	1125.8	1144.7	1144.7	1209.8	1302.1	1315.7
40°	10435.5	8883.9	4353.7	1245.1	1104.0	1082.4	1085.1	1085.1	1169.1	1269.6	1277.7
42.5°	10731.2	8927.4	3653.9	1193.6	1074.3	1049.8	1036.3	1044.4	1114.8	1180.1	1185.5
45°	11425.6	9233.9	2997.5	1161.0	1044.4	1036.3	1006.5	1003.6	1030.8	1060.7	1060.7
47.5°	12565.0	9838.7	2552.7	1139.3	1019.9	1017.2	981.9	946.8	943.9	954.9	954.9
50°	14417.6	10880.5	2254.1	1114.8	1003.6	981.9	941.2	887.0	868.0	876.1	876.1
52.5°	17195.4	12738.5	2140.3	1082.4	968.5	933.2	887.0	832.8	816.5	819.3	819.3
55°	20838.5	15592.3	2124.0	1044.4	930.5	873.5	835.6	794.8	775.9	781.3	781.3
57.5°	25290.1	19539.3	2414.3	984.7	878.9	813.8	792.0	764.9	751.4	759.5	756.8
60°	30701.7	24704.1	3580.7	922.3	827.3	759.5	759.5	737.9	727.0	735.2	732.4
62.5°	36935.4	30636.7	5034.7	876.1	773.1	716.2	727.0	716.2	705.3	710.6	708.0
65°	42463.8	34502.1	4714.6	841.0	718.9	675.4	694.4	689.0	680.8	686.2	683.6
67.5°	42623.8	33069.8	2647.6	802.9	667.4	634.7	662.0	659.1	653.7	659.1	656.4
70°	38039.4	27924.0	1491.9	732.4	613.1	586.0	624.0	621.2	615.8	626.6	624.0
72.5°	30476.5	20263.4	1090.5	645.6	558.7	534.4	577.8	575.0	575.0	591.4	583.2
75°	17537.3	10427.4	870.7	553.4	501.9	482.8	520.8	523.5	528.9	550.8	534.4
77.5°	4999.3	3249.8	710.6	469.3	431.2	423.2	461.2	466.6	469.3	493.7	472.0
80°	1858.1	1497.4	586.0	393.4	352.7	355.4	390.7	398.8	401.5	425.8	398.8
82.5°	1185.5	987.3	474.8	303.7	276.7	274.0	317.5	328.2	328.2	330.9	314.6
85°	691.8	591.4	358.1	219.7	195.3	187.1	236.1	254.9	246.9	241.5	230.5
87.5°	463.9	406.9	219.7	122.1	105.8	100.4	138.3	152.0	146.5	138.3	130.3
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)