

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: P194597

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50566 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

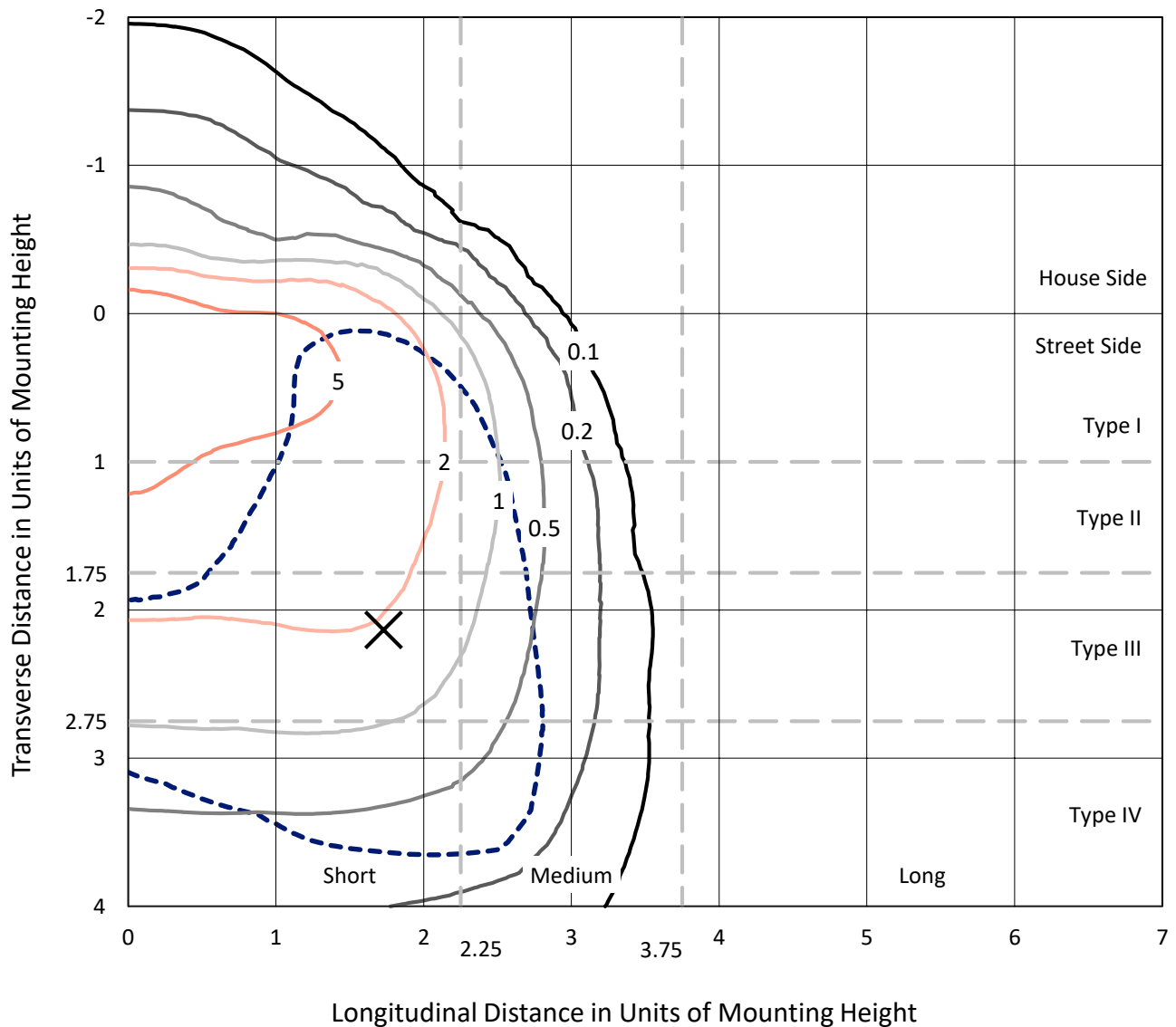
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

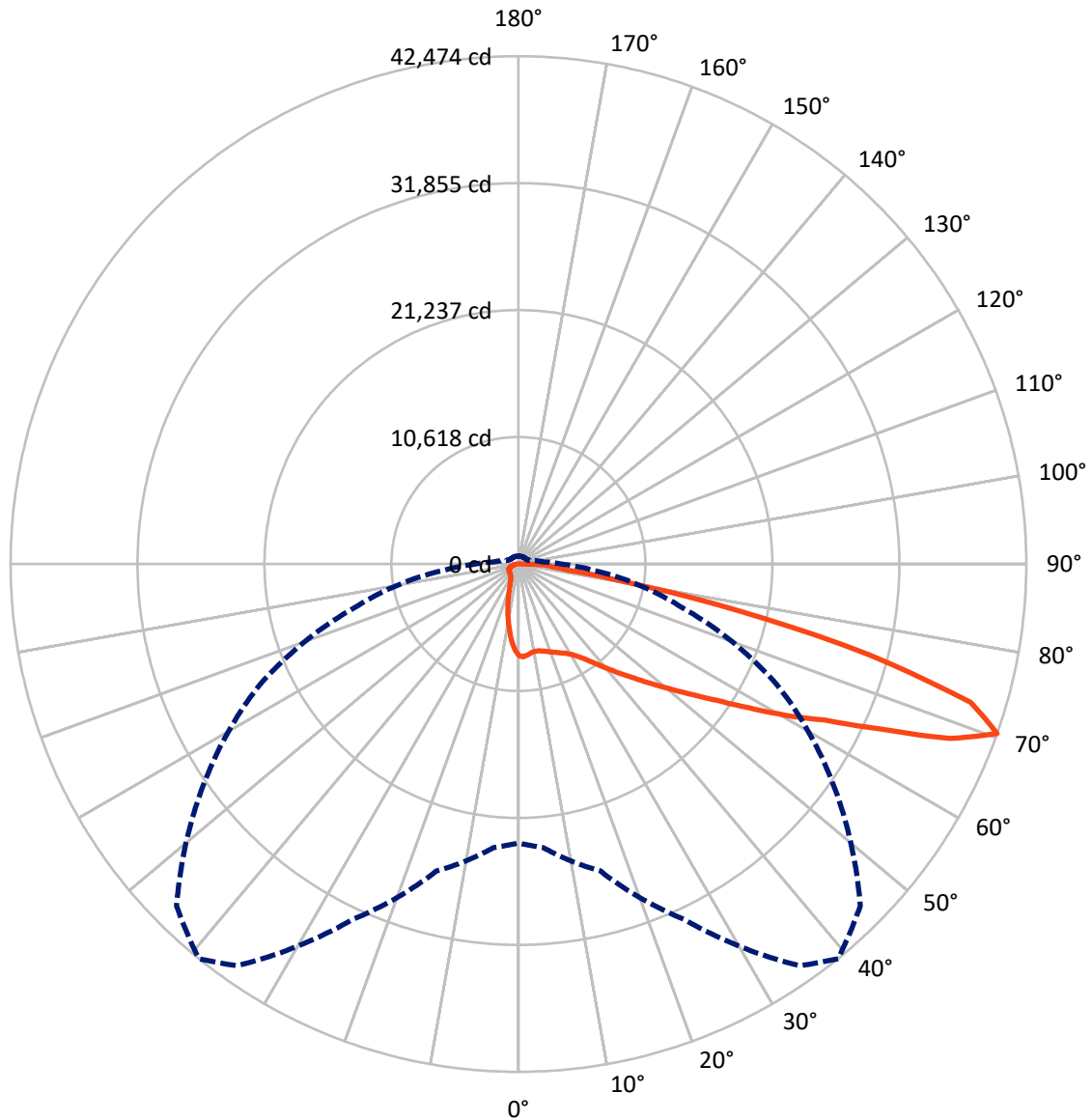


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5751.1	0.0	5751.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	44814.9	0.0	44814.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	50566.0	0.0	50566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.8	1.3
10°-20°	1646.8	3.3
20°-30°	2564.1	5.1
30°-40°	3994.4	7.9
40°-50°	6705.8	13.3
50°-60°	10652.8	21.1
60°-70°	14209.6	28.1
70°-80°	8580.8	17.0
80°-90°	1553.0	3.1
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°	50566.0	100.0
0°-180°	50566.0	100.0



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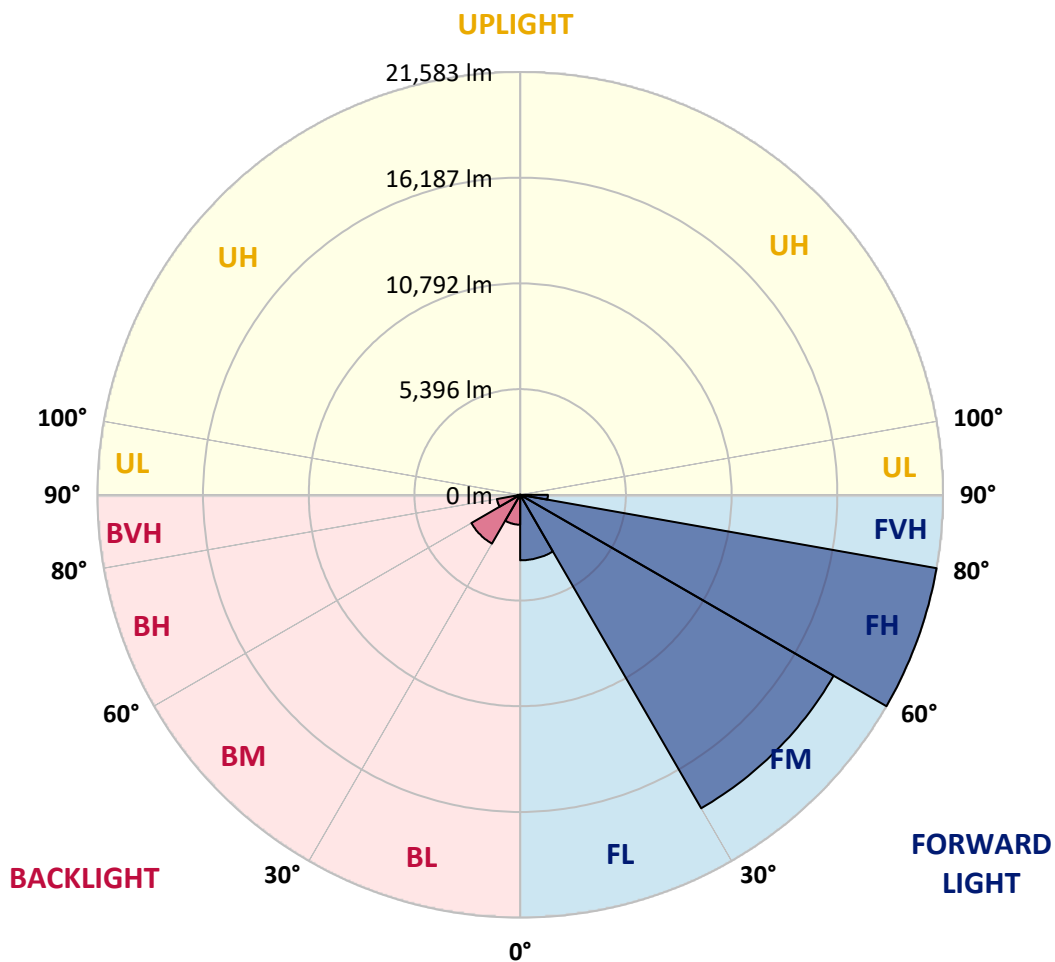
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3344.0	6.6			
FM (30°-60°)	18474.9	36.5			
FH (60°-80°)	21583.0	42.7			G5
FVH (80°-90°)	1413.0	2.8			G5
BL (0°-30°)	1525.7	3.0	B3/2500		
BM (30°-60°)	2878.1	5.7	B3/5000		
BH (60°-80°)	1207.4	2.4	B3/2500		G3/2500
BVH (80°-90°)	140.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7
2.5°	7825.8	7823.2	7802.7	7787.3	7774.4	7769.3	7779.5	7741.0	7707.6	7666.4	7622.7
5°	7766.7	7764.1	7730.7	7699.8	7669.0	7658.7	7656.1	7586.7	7545.6	7483.9	7401.6
7.5°	7702.4	7689.6	7645.9	7594.4	7540.4	7514.7	7489.0	7399.0	7352.8	7291.1	7195.9
10°	7635.6	7620.1	7579.0	7527.6	7476.2	7437.6	7393.9	7306.5	7257.6	7211.4	7100.8
12.5°	7566.2	7553.3	7543.0	7519.9	7483.9	7450.5	7417.0	7342.5	7291.1	7237.1	7108.5
15°	7555.9	7550.7	7573.9	7589.3	7568.7	7548.2	7512.2	7447.9	7393.9	7339.9	7172.8
17.5°	7638.1	7635.6	7694.7	7735.8	7725.5	7689.6	7640.7	7568.7	7525.0	7478.7	7270.5
20°	7818.1	7831.0	7902.9	7956.9	7905.5	7854.1	7774.4	7674.1	7651.0	7630.4	7370.8
22.5°	8157.5	8170.3	8221.7	8242.3	8108.6	8034.1	7923.5	7795.0	7779.5	7795.0	7491.6
25°	8687.1	8674.2	8666.5	8589.4	8345.1	8229.4	8088.0	7954.4	7962.1	8031.5	7661.3
27.5°	9388.9	9319.5	9211.5	8980.1	8591.9	8463.4	8291.1	8167.7	8216.6	8350.3	7915.8
30°	10116.5	10039.4	9790.0	9412.1	8915.9	8774.5	8581.7	8442.8	8571.4	8782.2	8255.2
32.5°	10790.1	10779.8	10414.7	9928.8	9363.2	9239.8	9047.0	8890.2	9098.4	9419.8	8764.2
35°	11525.3	11548.5	11111.4	10527.8	9967.4	9838.8	9700.0	9581.7	9859.4	10301.6	9502.0
37.5°	12312.0	12358.3	11841.6	11183.4	10656.4	10602.4	10520.1	10468.7	10898.0	11509.9	10533.0
40°	13363.5	13317.3	12600.0	11923.8	11502.2	11499.6	11473.9	11535.6	12250.3	13088.4	11857.0
42.5°	14489.6	14353.3	13404.7	12718.2	12430.3	12517.7	12569.1	12821.1	13877.7	15006.3	13471.5
45°	15703.0	15397.1	14240.2	13558.9	13461.2	13646.3	13821.1	14368.8	15793.0	17189.0	15240.3
47.5°	16672.3	16376.6	15104.0	14440.7	14654.1	14934.3	15271.1	16137.5	17937.2	19443.7	16985.9
50°	17435.8	17243.0	15975.6	15469.1	15967.8	16399.8	16949.9	18140.3	20168.7	21639.3	18603.0
52.5°	18176.3	18032.3	16854.8	16523.2	17510.4	18106.8	18855.0	20289.5	22456.8	23798.8	19963.0
55°	18844.7	18741.8	17800.9	17836.9	19325.4	20101.9	21042.8	22737.0	24950.6	25724.4	21114.8
57.5°	19598.0	19466.8	18880.7	19484.8	21657.2	22665.0	23888.8	25487.9	27290.1	27436.6	21991.5
60°	20356.4	20243.3	20078.7	21387.3	24618.9	25678.1	26837.6	28153.9	29663.0	28765.8	21940.0
62.5°	21014.5	21027.4	21317.9	23384.9	27518.9	28745.2	30159.2	31460.1	31809.7	28997.2	20317.8
65°	22130.3	22333.4	23199.8	26212.9	31601.5	33241.7	34977.1	34768.8	32403.6	26835.0	16839.4
67.5°	23456.9	23814.2	25570.2	29981.8	36761.3	38938.8	39609.8	35517.0	30025.5	21814.1	12003.5
70°	23323.2	23814.2	26593.4	32791.8	41013.5	42473.8	40437.7	32143.9	23842.5	14250.5	6375.8
72.5°	20711.2	21413.0	24508.4	31503.8	39674.1	39545.6	35105.6	23963.3	14165.7	5722.8	2491.2
75°	15785.3	16494.9	19158.3	24888.9	31357.2	30277.5	24909.4	13237.6	5375.7	2272.7	1570.8
77.5°	9080.4	9630.6	11687.3	15263.4	19893.6	18785.6	13864.9	5887.4	2617.2	1583.7	1226.3
80°	5069.8	5375.7	6625.2	7743.5	9748.8	8936.4	6203.6	3658.4	1953.9	1149.2	946.1
82.5°	4008.0	4280.5	5357.8	4884.7	4452.8	4108.3	3563.3	3257.3	1560.5	725.0	565.6
85°	3501.6	3761.2	4535.1	3846.1	3041.4	2789.4	2894.8	3205.9	1213.5	437.1	483.3
87.5°	3244.5	3591.5	4041.5	2964.2	2367.8	2097.9	2671.2	3514.4	390.8	272.5	195.4
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°	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7	7676.7
2.5°	7584.2	7543.0	7476.2	7417.0	7324.5	7275.6	7221.7	7183.1	7152.2	7126.5	7167.7
5°	7350.2	7273.1	7131.7	6980.0	6800.0	6658.6	6540.4	6429.8	6352.7	6301.3	6337.3
7.5°	7129.1	7003.1	6782.0	6506.9	6198.4	5936.2	5720.2	5530.0	5398.9	5314.0	5347.5
10°	7003.1	6846.3	6504.4	6072.5	5617.4	5208.6	4869.3	4576.2	4373.1	4257.4	4275.4
12.5°	6972.3	6769.2	6296.1	5702.3	5080.1	4511.9	4033.7	3627.5	3342.2	3193.1	3198.2
15°	6995.4	6735.8	6100.7	5347.5	4560.8	3843.5	3247.0	2753.4	2421.8	2252.1	2249.5
17.5°	7034.0	6710.0	5895.1	4964.4	4033.7	3200.8	2534.9	2051.6	1758.5	1622.2	1612.0
20°	7075.1	6668.9	5663.7	4550.5	3486.1	2604.3	1984.7	1606.8	1421.7	1347.2	1342.0
22.5°	7134.2	6632.9	5424.6	4113.4	2948.8	2121.0	1632.5	1378.0	1280.3	1241.7	1236.6
25°	7229.4	6614.9	5170.1	3658.4	2465.5	1773.9	1421.7	1264.9	1208.3	1182.6	1180.0
27.5°	7388.8	6640.6	4931.0	3216.2	2072.1	1540.0	1303.4	1208.3	1167.2	1144.0	1141.5
30°	7594.4	6720.3	4679.0	2797.1	1766.2	1380.6	1231.5	1169.8	1136.3	1113.2	1113.2
32.5°	7936.4	6854.0	4414.2	2434.6	1547.7	1270.0	1177.5	1136.3	1108.1	1090.1	1087.5
35°	8440.3	7106.0	4167.4	2133.8	1390.9	1190.3	1131.2	1100.3	1079.8	1069.5	1069.5
37.5°	9173.0	7504.5	3948.9	1917.9	1295.7	1136.3	1087.5	1064.4	1051.5	1051.5	1051.5
40°	10157.6	8054.6	3771.5	1773.9	1241.7	1097.8	1054.1	1036.1	1028.4	1030.9	1030.9
42.5°	11373.7	8769.3	3653.2	1673.7	1216.0	1074.6	1030.9	1015.5	1007.8	1005.2	1007.8
45°	12759.4	9581.7	3640.4	1599.1	1190.3	1059.2	1015.5	1000.1	984.7	974.4	974.4
47.5°	14106.5	10407.0	3745.8	1573.4	1162.0	1041.2	1002.7	987.2	964.1	940.9	940.9
50°	15296.8	11108.9	3887.2	1583.7	1151.8	1015.5	982.1	974.4	938.4	912.7	910.1
52.5°	16242.9	11648.7	4002.9	1614.5	1162.0	997.5	956.4	958.9	920.4	892.1	889.5
55°	17001.4	12003.5	3972.0	1645.4	1185.2	987.2	933.2	938.4	907.5	879.2	879.2
57.5°	17333.0	11872.4	3630.1	1619.7	1203.2	989.8	915.2	935.8	910.1	884.4	884.4
60°	16620.9	10707.8	2990.0	1506.5	1180.0	982.1	907.5	946.1	943.5	917.8	915.2
62.5°	14466.4	8622.8	2319.0	1339.4	1100.3	943.5	887.0	943.5	971.8	964.1	961.5
65°	11150.0	6141.9	1771.3	1159.5	992.4	879.2	833.0	884.4	923.0	933.2	930.7
67.5°	7237.1	3763.8	1365.1	989.8	871.5	804.7	763.6	786.7	794.4	794.4	789.3
70°	3558.1	2025.9	1087.5	833.0	748.1	725.0	701.9	689.0	676.1	665.9	665.9
72.5°	1755.9	1324.0	894.7	704.4	645.3	635.0	629.9	614.4	604.2	591.3	586.2
75°	1298.3	1077.2	761.0	593.9	555.3	545.0	555.3	542.5	539.9	529.6	524.5
77.5°	1066.9	917.8	655.6	509.0	475.6	457.6	473.0	475.6	478.2	462.8	457.6
80°	866.4	776.4	547.6	421.6	390.8	377.9	388.2	408.8	413.9	390.8	380.5
82.5°	624.7	635.0	442.2	329.1	303.4	293.1	313.6	339.4	344.5	311.1	303.4
85°	524.5	529.6	339.4	234.0	208.2	192.8	226.2	251.9	269.9	236.5	228.8
87.5°	218.5	311.1	195.4	131.1	115.7	100.3	120.8	133.7	162.0	149.1	146.5
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)