

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: P268576

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25637.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

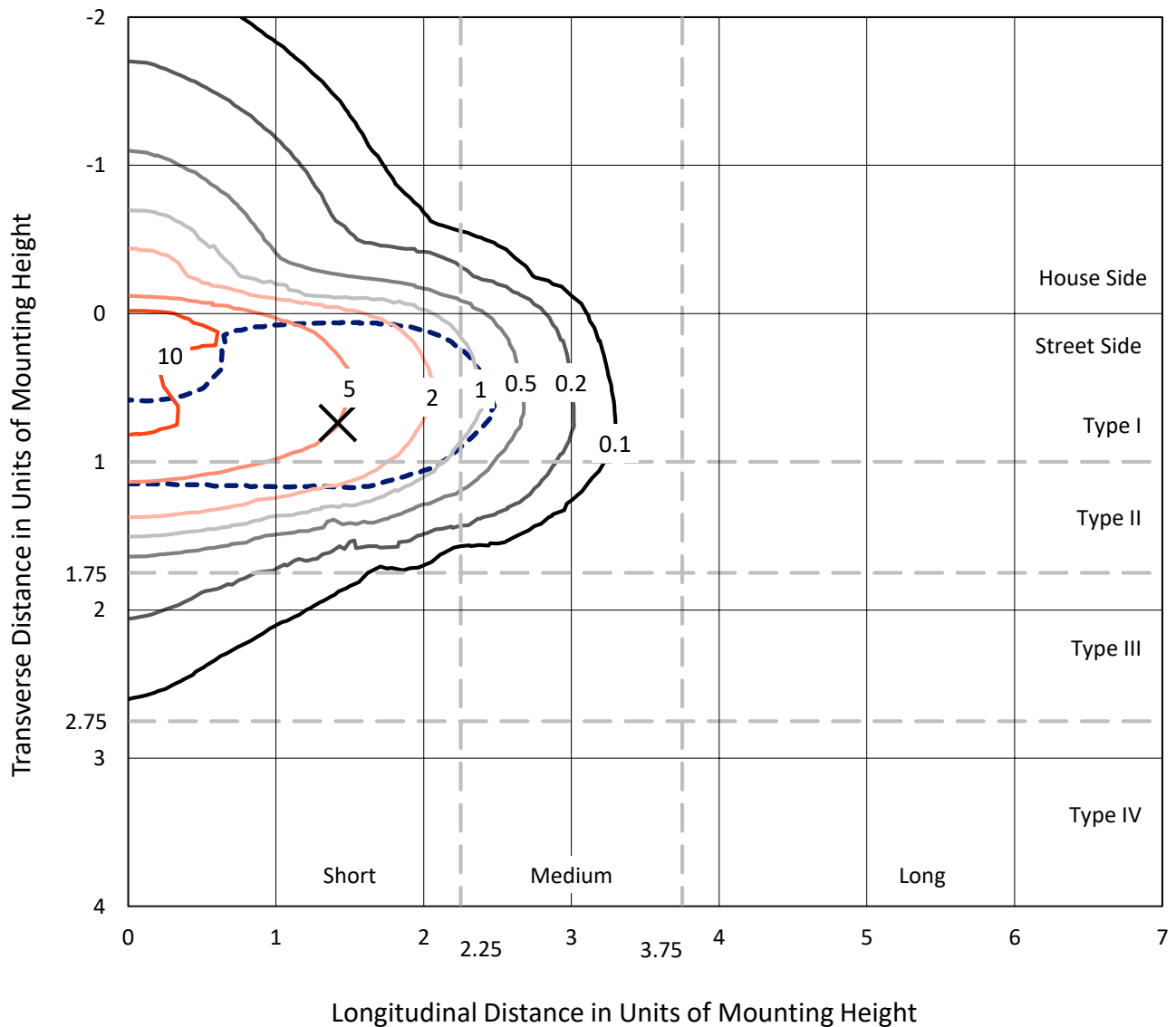
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

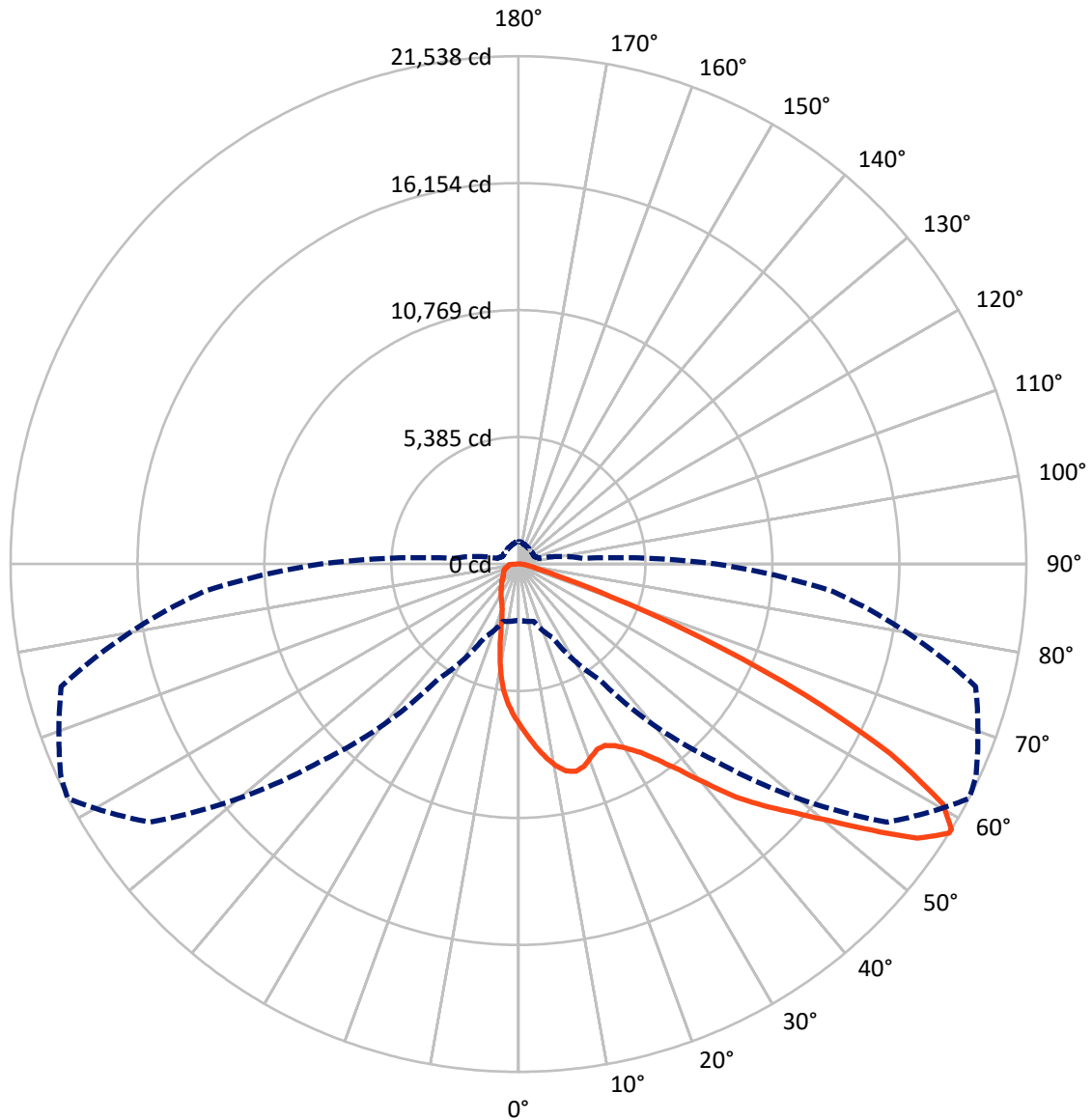
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3909.8	0.0	3909.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21727.5	0.0	21727.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	25637.3	0.0	25637.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.1	2.4
10°-20°	1556.8	6.1
20°-30°	2516.7	9.8
30°-40°	3995.2	15.6
40°-50°	5845.8	22.8
50°-60°	6114.2	23.8
60°-70°	3612.3	14.1
70°-80°	1017.6	4.0
80°-90°	369.4	1.4
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°	25637.3	100.0
0°-180°	25637.3	100.0



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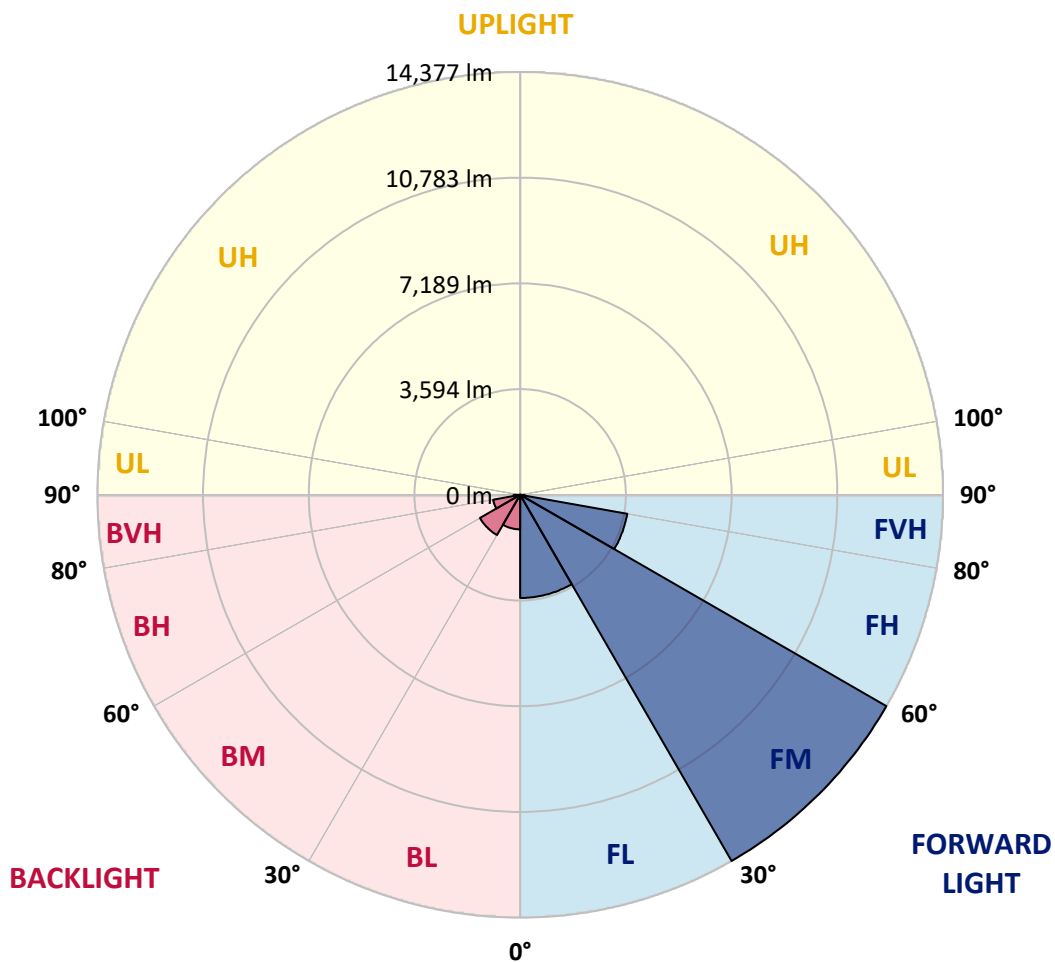
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3507.5	13.7			
FM	(30°-60°)	14377.2	56.1			
FH	(60°-80°)	3697.0	14.4			G2/5000
FVH	(80°-90°)	145.8	0.6			G2/225
BL	(0°-30°)	1175.1	4.6	B3/2500		
BM	(30°-60°)	1578.1	6.2	B2/2500		
BH	(60°-80°)	932.9	3.6	B2/1000		G2/1000
BVH	(80°-90°)	223.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1
2.5°	7781.8	7719.0	7679.3	7644.2	7598.4	7500.6	7368.9	7285.7	7243.5	7099.8	6929.5
5°	8544.8	8489.3	8448.2	8401.2	8319.1	8165.8	7953.2	7784.3	7701.0	7413.6	7073.3
7.5°	8366.2	8389.1	8460.2	8584.7	8690.9	8670.4	8480.9	8265.9	8156.2	7756.4	7239.8
10°	7289.2	7329.1	7452.2	7743.2	8214.0	8696.9	8844.3	8695.8	8584.7	8095.7	7411.2
12.5°	7073.3	7071.9	7081.7	7159.0	7439.0	8118.6	8856.3	9006.0	8939.7	8419.3	7586.2
15°	7161.3	7163.8	7156.4	7189.0	7276.0	7545.3	8486.8	9125.5	9172.7	8745.2	7767.4
17.5°	7393.1	7387.1	7359.4	7359.4	7390.6	7495.7	8052.2	9014.4	9231.7	9033.7	7926.7
20°	7781.8	7754.1	7680.5	7612.9	7579.0	7635.8	7873.6	8758.6	9129.1	9286.0	8058.2
22.5°	8252.6	8230.9	8111.4	7966.6	7849.5	7848.2	7965.4	8535.2	8951.7	9523.9	8169.4
25°	8861.2	8826.0	8648.6	8416.8	8211.6	8133.2	8165.8	8524.2	8855.1	9782.3	8268.4
27.5°	9575.8	9511.9	9301.8	8967.3	8665.5	8507.4	8460.2	8721.0	8943.2	10102.2	8406.0
30°	10442.5	10369.0	10099.7	9664.0	9237.8	8978.2	8877.9	9069.9	9235.4	10492.2	8627.0
32.5°	11428.9	11322.6	11011.2	10530.7	9970.6	9574.6	9411.6	9531.1	9662.7	10961.7	8903.5
35°	12791.9	12665.2	12214.9	11552.1	10919.4	10375.0	10114.2	10201.2	10329.2	11661.8	9302.9
37.5°	13721.4	13664.7	13365.3	12742.4	12054.3	11427.7	11024.4	11075.3	11147.6	12537.1	9814.8
40°	13712.9	13736.0	13742.0	13748.0	13279.6	12679.5	12246.2	12193.1	12178.6	13498.1	10396.8
42.5°	13026.1	13120.3	13424.5	14041.3	14326.3	14051.0	13653.9	13500.5	13424.5	14630.4	11013.6
45°	11974.5	12025.3	12595.0	13799.9	14862.3	15409.2	15108.6	14625.7	14488.0	15671.1	11525.4
47.5°	11432.5	11488.1	11846.6	13160.1	14856.3	16506.5	16680.4	15760.5	15514.2	16576.6	11967.3
50°	10142.0	10257.8	10709.5	12047.0	14314.2	17011.2	18323.4	17112.6	16603.2	17457.8	12410.4
52.5°	7772.1	7950.9	8456.7	10216.9	12939.1	16761.3	19638.0	18751.9	18032.4	18370.5	12790.6
55°	4902.6	5035.4	5460.3	7215.6	10350.8	15461.1	20136.6	20525.5	19885.6	19234.9	13120.3
57.5°	2665.6	2724.6	2884.1	3983.9	6732.7	12586.6	19409.9	21534.7	21269.1	19969.0	13368.9
58°	2385.4	2425.3	2524.3	3452.6	5971.0	11800.8	19087.6	21538.3	21405.5	20076.3	13388.2
60°	1769.8	1749.3	1661.1	1970.3	3323.5	8152.5	17139.1	20676.4	21066.3	20207.9	13294.0
62.5°	1555.0	1505.4	1325.5	1305.0	1616.5	3755.8	13114.1	17711.3	18632.5	19457.0	12721.8
65°	1460.7	1407.6	1175.8	1101.1	1166.2	1588.7	7725.2	13283.1	14438.5	17180.2	11258.6
67.5°	1390.8	1321.9	1080.5	977.8	982.7	1050.3	3096.5	8366.2	9666.3	13044.2	8757.2
70°	1323.2	1248.3	999.6	881.2	853.5	830.6	1231.3	4187.9	5367.4	8239.3	5583.4
72.5°	1250.7	1177.0	928.4	805.2	751.0	674.8	804.1	1713.1	2392.7	3898.1	2532.9
75°	1145.7	1079.3	857.2	737.6	660.3	558.9	607.3	894.5	1073.3	1552.5	1220.4
77.5°	1016.5	962.2	777.5	682.2	585.5	454.0	467.2	620.5	688.1	888.6	725.6
80°	730.4	749.6	691.8	613.3	521.6	368.2	358.6	452.7	488.9	571.1	472.0
82.5°	513.1	523.9	572.2	501.1	430.9	289.8	264.5	318.7	340.5	375.4	254.7
85°	353.8	341.6	392.4	348.9	311.4	193.1	181.1	216.1	229.3	233.0	131.6
87.5°	212.4	212.4	226.9	187.1	167.9	100.3	97.7	123.2	131.6	125.6	72.5
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°	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1
2.5°	6828.1	6742.4	6560.1	6414.1	6229.3	6037.4	5929.9	5815.3	5736.8	5680.1	5770.6
5°	6880.1	6704.9	6328.3	5971.0	5576.1	5165.8	4854.4	4564.6	4363.0	4237.5	4355.7
7.5°	6962.1	6692.9	6092.9	5482.0	4773.5	4090.2	3479.2	3096.5	2873.1	2763.4	2832.1
10°	7056.2	6673.6	5816.4	4819.2	3805.2	2944.5	2488.1	2333.5	2283.0	2262.3	2272.1
12.5°	7134.8	6632.5	5477.2	4017.7	2857.5	2325.2	2193.5	2189.9	2200.8	2203.3	2206.9
15°	7190.4	6572.2	4973.8	3182.2	2285.3	2118.7	2111.5	2133.1	2153.6	2162.2	2167.0
17.5°	7227.8	6447.9	4405.2	2516.0	2047.4	2018.5	2035.4	2063.1	2084.8	2091.0	2095.7
20°	7224.1	6265.6	3728.0	2098.3	1918.3	1918.3	1947.3	1969.1	1970.3	1962.9	1966.6
22.5°	7186.7	6015.7	3071.2	1876.0	1803.5	1824.2	1853.2	1832.6	1748.1	1692.5	1696.2
25°	7123.9	5717.4	2508.6	1734.7	1697.3	1733.5	1725.1	1570.5	1449.9	1395.5	1395.5
27.5°	7068.4	5364.9	2076.4	1611.6	1591.2	1635.9	1486.1	1346.1	1295.4	1270.1	1261.6
30°	7028.5	4984.6	1787.9	1493.3	1490.9	1458.4	1289.3	1250.7	1242.3	1221.8	1214.5
32.5°	7038.2	4599.6	1603.2	1389.5	1398.0	1248.3	1195.1	1203.5	1196.4	1174.7	1165.0
35°	7117.9	4233.8	1482.6	1295.4	1270.1	1127.6	1139.6	1155.3	1153.0	1122.7	1113.1
37.5°	7260.3	3887.2	1402.9	1216.9	1108.2	1067.1	1086.5	1110.7	1104.6	1084.2	1076.9
40°	7409.9	3561.3	1337.7	1155.3	1012.8	1026.1	1043.0	1056.3	1062.3	1068.4	1063.6
42.5°	7556.2	3221.0	1257.9	1092.6	973.0	987.5	994.8	1008.1	1040.6	1063.6	1062.3
45°	7643.0	2900.9	1175.8	1003.1	941.7	950.0	945.2	971.8	1011.8	1049.1	1050.3
47.5°	7739.5	2652.2	1110.7	921.1	911.5	917.4	903.1	929.6	965.8	1011.8	1016.5
50°	7856.7	2503.8	1058.7	855.9	870.4	870.4	866.9	890.9	941.7	994.8	1004.5
52.5°	7989.4	2474.8	1015.3	808.8	829.3	828.1	831.8	868.0	923.5	975.5	984.0
55°	8151.3	2553.3	968.3	773.8	789.5	794.3	806.4	847.6	894.5	953.7	957.4
57.5°	8339.5	2712.6	930.7	746.0	753.3	768.9	788.4	825.7	876.4	941.7	945.2
58°	8370.9	2746.5	924.7	743.6	746.0	764.2	785.8	822.0	872.9	944.1	947.7
60°	8372.3	2858.8	911.5	732.7	718.4	748.5	772.6	808.8	866.9	952.6	960.9
62.5°	8075.3	2857.5	901.8	717.0	689.3	726.8	754.5	796.7	860.8	973.0	989.9
65°	7110.7	2596.8	855.9	693.0	666.5	707.4	738.9	788.4	877.6	1062.3	1073.3
67.5°	5561.8	2128.4	770.1	659.1	636.2	688.1	729.2	787.2	895.8	1082.8	1090.2
70°	3677.2	1592.3	676.1	620.5	604.7	665.1	733.9	828.1	875.3	1039.3	1020.1
72.5°	1908.7	1117.9	600.0	572.2	568.5	644.7	804.1	823.3	854.7	977.8	953.7
75°	1002.0	776.2	533.7	519.1	525.1	639.9	948.9	801.6	828.1	935.7	981.5
77.5°	613.3	626.6	476.9	470.8	482.8	625.3	947.7	773.8	789.5	860.8	911.5
80°	410.4	508.3	433.4	434.6	443.0	572.2	851.1	730.4	742.4	813.7	865.5
82.5°	259.6	300.7	393.5	414.1	403.2	472.0	723.1	665.1	682.2	930.7	984.0
85°	131.6	188.4	341.6	398.4	363.4	330.8	586.8	583.1	591.5	671.3	701.3
87.5°	60.4	103.8	266.7	347.6	274.1	206.4	426.2	432.2	466.0	476.9	476.9
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)