

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: P268736

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268736
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-08-LED-U-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34354.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 334
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

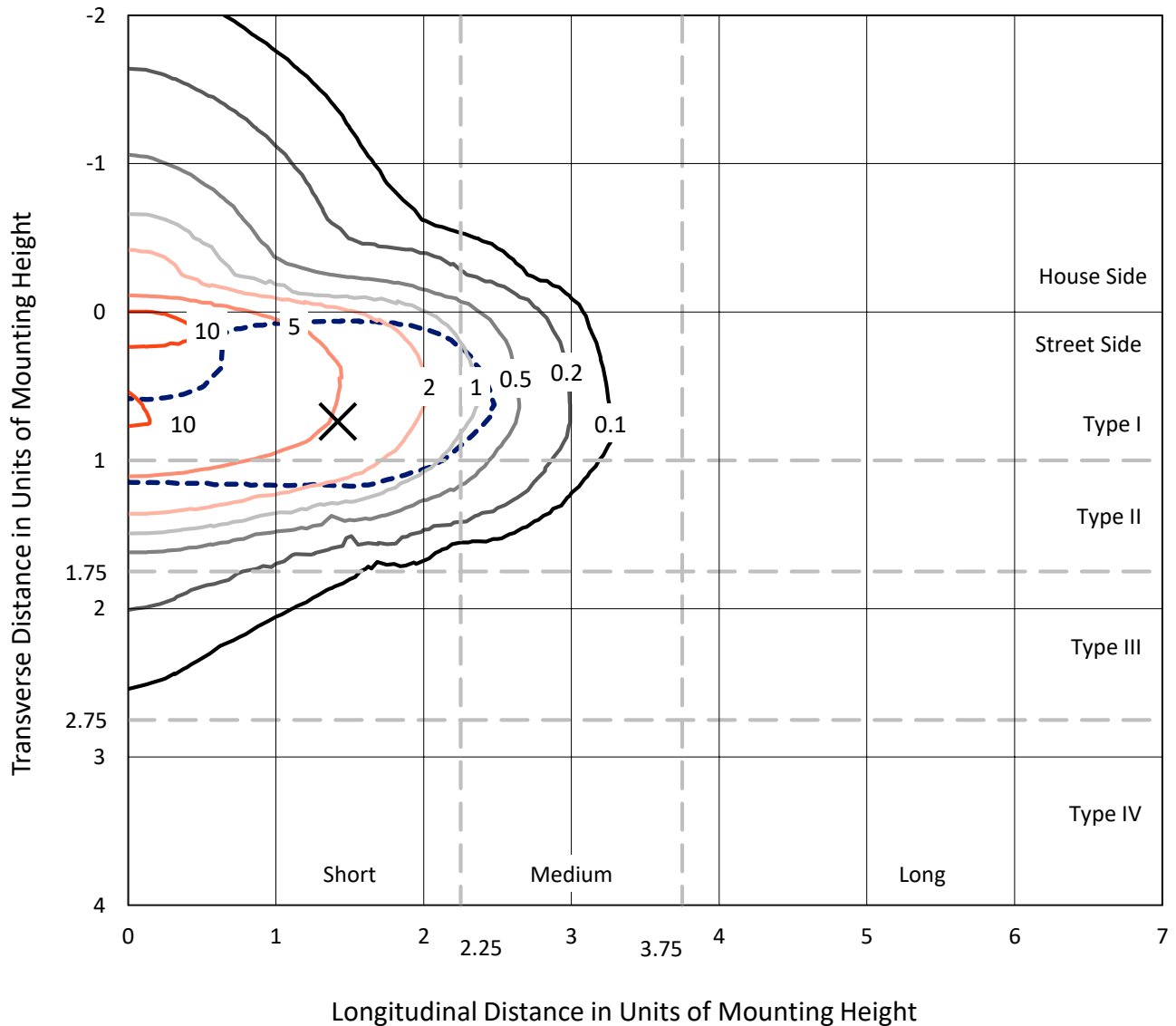


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Iso-Footcandle Lines of Horizontal Illumination

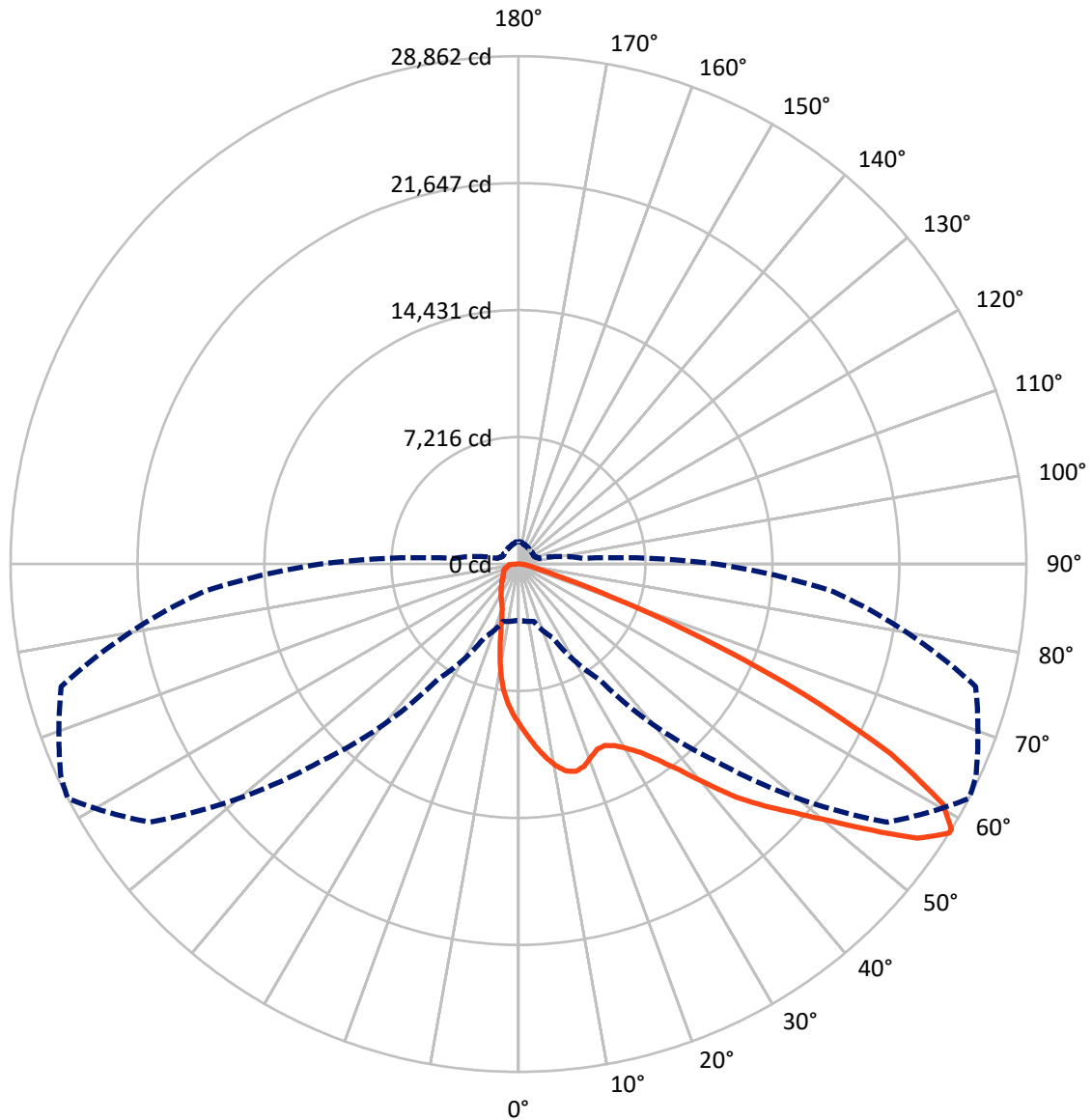
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 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	5239.2	0.0	5239.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29115.6	0.0	29115.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	34354.8	0.0	34354.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.2	2.4
10°-20°	2086.2	6.1
20°-30°	3372.4	9.8
30°-40°	5353.7	15.6
40°-50°	7833.6	22.8
50°-60°	8193.3	23.8
60°-70°	4840.6	14.1
70°-80°	1363.6	4.0
80°-90°	495.1	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°	34354.8	100.0
0°-180°	34354.8	100.0



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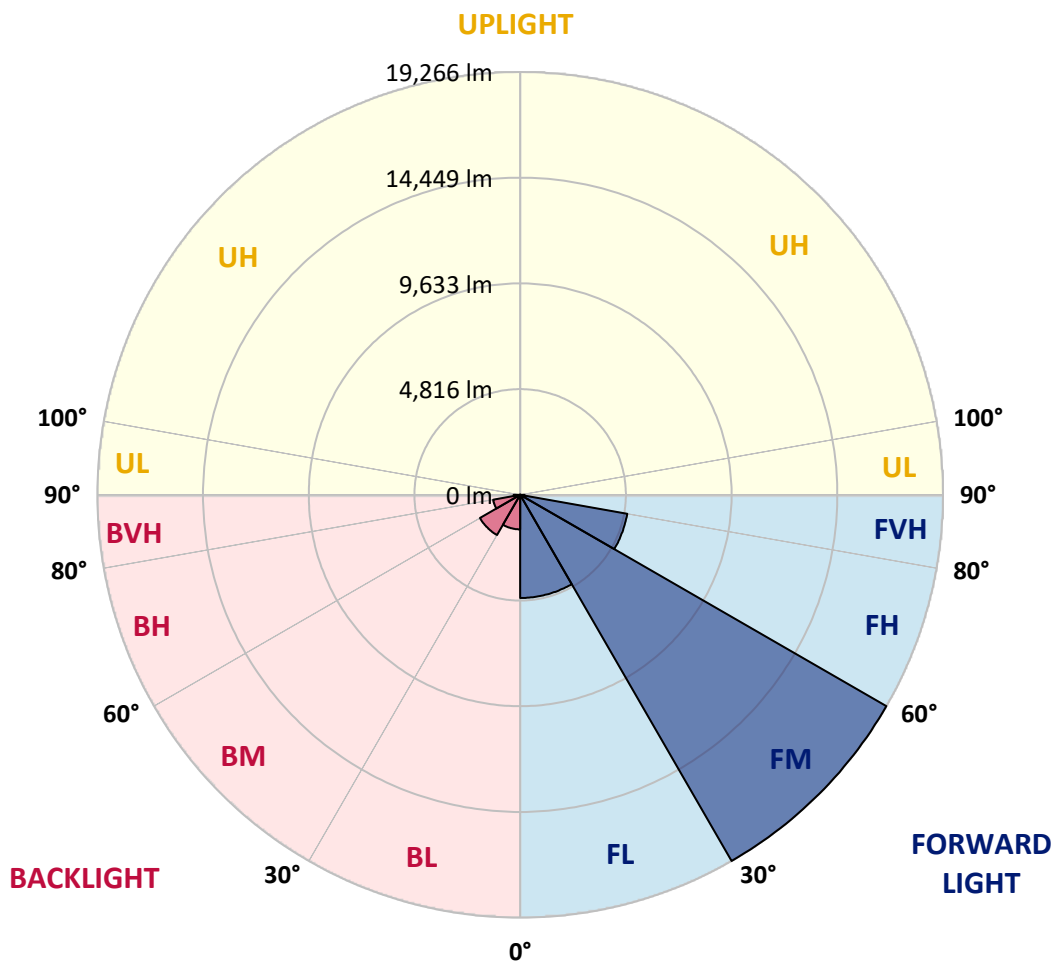
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4700.2	13.7			
FM	(30°-60°)	19266.0	56.1			
FH	(60°-80°)	4954.1	14.4			G2/5000
FVH	(80°-90°)	195.3	0.6			G2/225
BL	(0°-30°)	1574.7	4.6	B3/2500		
BM	(30°-60°)	2114.7	6.2	B2/2500		
BH	(60°-80°)	1250.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	299.8	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6
2.5°	10428.0	10343.9	10290.4	10243.6	10182.0	10051.0	9874.7	9763.0	9706.5	9513.9	9285.8
5°	11450.3	11376.0	11320.9	11257.7	11147.8	10942.3	10657.6	10431.2	10319.5	9934.5	9478.3
7.5°	11210.8	11241.7	11337.1	11503.8	11646.0	11618.6	11364.5	11076.6	10929.4	10394.0	9701.5
10°	9767.9	9821.3	9986.3	10376.1	11007.1	11654.3	11851.6	11652.5	11503.8	10848.6	9931.3
12.5°	9478.3	9476.7	9489.6	9593.2	9968.5	10879.3	11867.7	12068.3	11979.3	11282.2	10165.8
15°	9596.5	9599.6	9589.9	9633.7	9750.2	10110.9	11372.7	12228.4	12291.6	11718.8	10408.5
17.5°	9907.0	9899.0	9861.8	9861.8	9903.8	10044.5	10790.4	12079.7	12370.7	12105.5	10622.1
20°	10428.0	10390.8	10292.1	10201.4	10156.1	10232.1	10551.0	11736.6	12233.3	12443.6	10798.3
22.5°	11058.9	11029.7	10869.6	10675.5	10518.6	10516.8	10673.8	11437.4	11995.4	12762.3	10947.3
25°	11874.2	11827.3	11589.5	11278.8	11003.9	10898.6	10942.3	11422.8	11866.2	13108.4	11079.9
27.5°	12831.8	12746.1	12464.6	12016.5	11612.1	11400.2	11337.1	11686.5	11984.2	13537.2	11264.2
30°	13993.3	13894.8	13534.0	12950.0	12379.0	12031.1	11896.9	12154.1	12375.7	14059.7	11560.4
32.5°	15315.2	15172.7	14755.4	14111.6	13360.9	12830.2	12611.8	12772.0	12948.3	14689.1	11930.7
35°	17141.5	16971.7	16368.2	15480.1	14632.4	13902.8	13553.4	13669.9	13841.4	15627.4	12466.3
37.5°	18387.1	18311.2	17910.0	17075.3	16153.1	15313.4	14773.2	14841.1	14938.2	16800.2	13152.3
40°	18375.9	18406.6	18414.6	18422.8	17795.2	16991.1	16410.2	16339.1	16319.7	18087.9	13932.0
42.5°	17455.3	17581.5	17989.3	18815.9	19197.7	18828.8	18296.6	18091.1	17989.3	19605.4	14758.7
45°	16046.3	16114.2	16877.8	18492.4	19916.0	20648.8	20246.0	19599.0	19414.4	20999.9	15444.5
47.5°	15320.0	15394.3	15874.8	17634.9	19907.9	22119.3	22352.3	21119.5	20789.6	22213.2	16036.6
50°	13590.5	13746.0	14351.0	16143.4	19181.5	22795.5	24554.0	22931.5	22248.7	23394.1	16630.3
52.5°	10414.9	10654.3	11332.3	13690.9	17338.8	22460.6	26315.7	25128.3	24164.1	24617.2	17139.9
55°	6569.7	6747.6	7317.1	9669.1	13870.5	20718.4	26983.8	27504.8	26647.3	25775.3	17581.5
57.5°	3572.0	3651.3	3864.8	5338.5	9022.0	16866.5	26010.0	28857.2	28501.2	26759.0	17914.8
58°	3196.7	3250.1	3382.7	4626.7	8001.4	15813.4	25578.0	28862.1	28684.0	26903.0	17940.7
60°	2371.5	2344.0	2226.0	2640.2	4453.6	10924.6	22967.0	27707.0	28229.4	27079.2	17814.5
62.5°	2083.7	2017.4	1776.3	1748.8	2166.2	5032.8	17573.5	23733.8	24968.1	26073.0	17047.8
65°	1957.4	1886.4	1575.6	1475.3	1562.7	2129.0	10351.9	17799.9	19348.1	23022.0	15087.0
67.5°	1863.7	1771.4	1447.9	1310.4	1316.8	1407.5	4149.5	11210.8	12953.2	17479.6	11735.1
70°	1773.1	1672.7	1339.6	1180.9	1143.7	1113.0	1650.0	5611.9	7192.5	11041.1	7482.1
72.5°	1676.0	1577.3	1244.1	1079.0	1006.2	904.4	1077.3	2295.6	3206.4	5223.6	3393.9
75°	1535.3	1446.2	1148.7	988.5	884.9	748.9	813.8	1198.8	1438.1	2080.5	1635.5
77.5°	1362.1	1289.3	1041.9	914.0	784.6	608.2	626.1	831.6	922.1	1190.7	972.2
80°	978.8	1004.7	927.1	821.8	698.8	493.3	480.5	606.6	655.1	765.1	632.5
82.5°	687.6	702.0	766.9	671.4	577.5	388.2	354.3	427.1	456.2	503.1	341.4
85°	473.9	457.9	525.8	467.5	417.4	258.8	242.6	289.6	307.4	312.3	176.3
87.5°	284.8	284.8	304.2	250.7	224.8	134.2	131.1	165.0	176.3	168.3	97.0
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°	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6	9125.6
2.5°	9150.0	9035.1	8790.8	8595.1	8347.5	8090.2	7946.3	7792.6	7687.4	7611.5	7732.8
5°	9219.5	8984.8	8480.2	8001.4	7472.3	6922.2	6504.9	6116.6	5846.4	5678.2	5836.7
7.5°	9329.4	8968.8	8164.8	7346.1	6396.6	5480.9	4662.4	4149.5	3850.2	3703.1	3795.2
10°	9455.6	8942.8	7794.2	6458.1	5099.0	3945.6	3334.1	3127.1	3059.2	3031.6	3044.5
12.5°	9560.8	8887.8	7339.7	5383.8	3829.1	3115.7	2939.4	2934.6	2949.1	2952.4	2957.2
15°	9635.2	8807.0	6665.1	4264.3	3062.4	2839.2	2829.4	2858.5	2886.1	2897.4	2903.9
17.5°	9685.3	8640.3	5903.1	3371.3	2743.7	2704.8	2727.6	2764.8	2793.8	2802.0	2808.5
20°	9680.6	8396.1	4995.6	2811.7	2570.6	2570.6	2609.3	2638.5	2640.2	2630.4	2635.3
22.5°	9630.4	8061.2	4115.6	2513.9	2416.9	2444.4	2483.3	2455.7	2342.5	2268.1	2272.9
25°	9546.3	7661.6	3361.6	2324.6	2274.6	2323.0	2311.8	2104.6	1942.9	1870.1	1870.1
27.5°	9471.9	7189.2	2782.5	2159.6	2132.1	2192.0	1991.5	1803.7	1735.9	1701.8	1690.5
30°	9418.5	6679.6	2395.9	2001.2	1997.9	1954.3	1727.7	1676.0	1664.6	1637.2	1627.4
32.5°	9431.5	6163.6	2148.3	1861.9	1873.3	1672.7	1601.6	1612.8	1603.1	1574.1	1561.2
35°	9538.2	5673.3	1986.6	1735.9	1701.8	1510.9	1527.2	1548.1	1544.9	1504.5	1491.5
37.5°	9729.1	5209.1	1879.9	1630.7	1485.1	1430.1	1456.0	1488.3	1480.2	1452.6	1442.9
40°	9929.7	4772.3	1792.5	1548.1	1357.2	1375.0	1397.8	1415.5	1423.6	1431.7	1425.3
42.5°	10125.4	4316.1	1685.7	1464.1	1303.9	1323.4	1333.1	1350.8	1394.4	1425.3	1423.6
45°	10241.8	3887.4	1575.6	1344.4	1261.8	1273.2	1266.7	1302.3	1355.6	1405.8	1407.5
47.5°	10371.3	3554.1	1488.3	1234.4	1221.3	1229.5	1210.0	1245.7	1294.2	1355.6	1362.1
50°	10528.2	3355.2	1418.8	1147.0	1166.4	1166.4	1161.6	1193.8	1261.8	1333.1	1346.0
52.5°	10706.2	3316.4	1360.6	1083.8	1111.5	1109.8	1114.6	1163.1	1237.5	1307.2	1318.4
55°	10923.0	3421.6	1297.4	1037.0	1058.1	1064.5	1080.7	1135.6	1198.8	1278.0	1282.9
57.5°	11175.4	3635.0	1247.2	999.8	1009.4	1030.4	1056.3	1106.5	1174.4	1261.8	1266.7
58°	11217.3	3680.4	1239.2	996.5	999.8	1024.0	1053.2	1101.7	1169.7	1265.1	1269.9
60°	11219.0	3830.8	1221.3	981.9	962.5	1003.0	1035.3	1083.8	1161.6	1276.4	1287.7
62.5°	10821.1	3829.1	1208.5	960.9	923.7	973.9	1011.1	1067.7	1153.5	1303.9	1326.5
65°	9528.5	3479.8	1147.0	928.6	892.9	948.0	990.0	1056.3	1176.2	1423.6	1438.1
67.5°	7452.9	2852.1	1032.2	883.3	852.5	922.1	977.0	1054.8	1200.3	1451.1	1460.9
70°	4927.7	2133.8	905.9	831.6	810.5	891.4	983.6	1109.8	1172.8	1392.9	1367.0
72.5°	2557.7	1498.1	804.1	766.9	761.9	863.9	1077.3	1103.3	1145.3	1310.4	1278.0
75°	1342.7	1040.1	715.1	695.6	703.7	857.4	1271.6	1074.2	1109.8	1253.8	1315.2
77.5°	821.8	839.6	639.1	630.9	647.0	837.9	1269.9	1037.0	1058.1	1153.5	1221.3
80°	550.0	681.0	580.8	582.5	593.7	766.9	1140.5	978.8	995.0	1090.4	1159.9
82.5°	347.9	402.8	527.3	555.0	540.3	632.5	969.0	891.4	914.0	1247.2	1318.4
85°	176.3	252.3	457.9	533.9	486.9	443.3	786.2	781.3	792.7	899.5	939.8
87.5°	80.8	139.1	357.5	466.0	367.2	276.7	571.1	579.1	624.4	639.1	639.1
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)