

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: P193505

Luminaire Tested: **GAN-AF-07-LED-U-AFL-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193505
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-07-LED-U-AFL-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28477 lumens
Efficiency: N/A
Efficacy: 96.5 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): 295
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

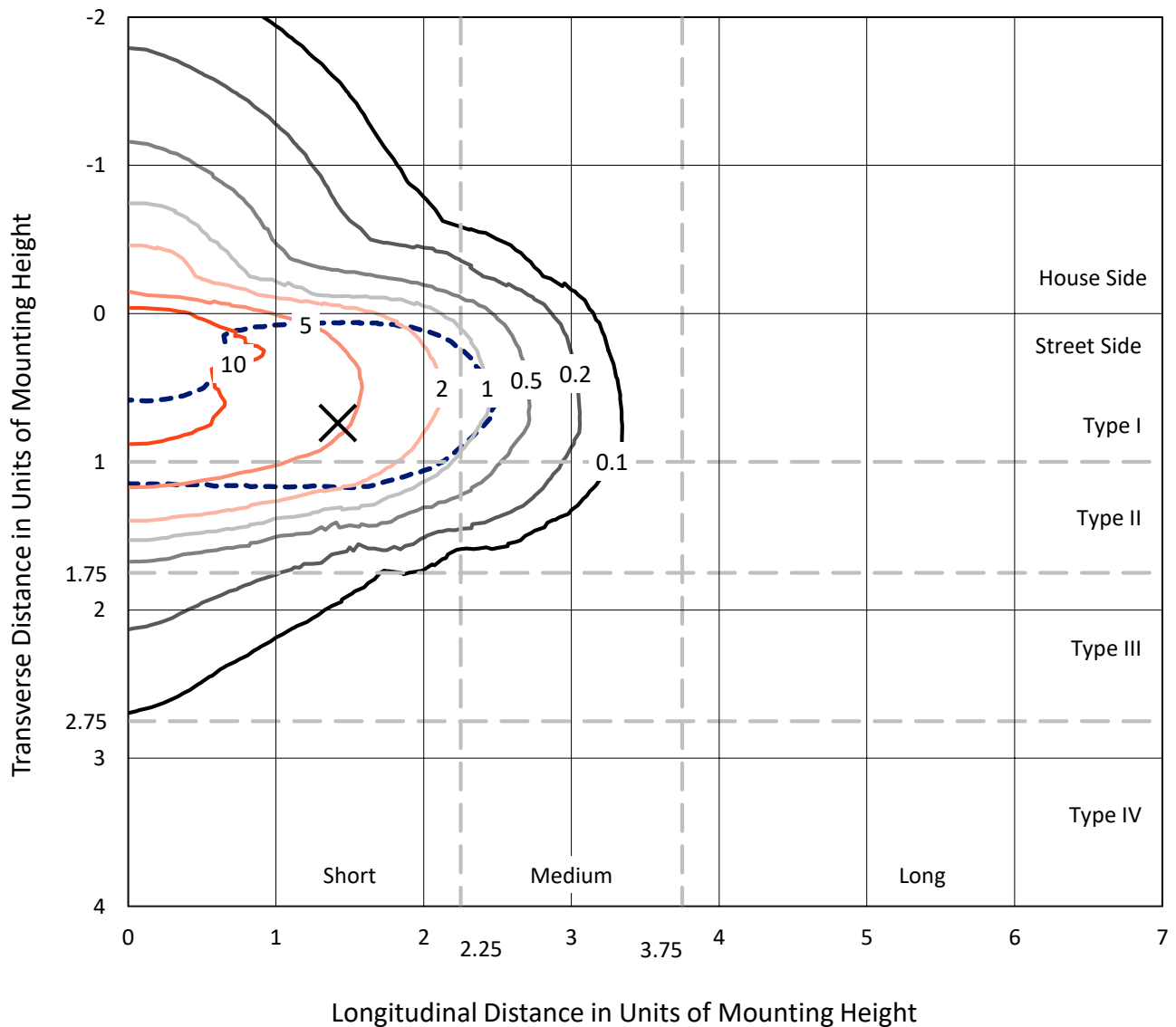


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

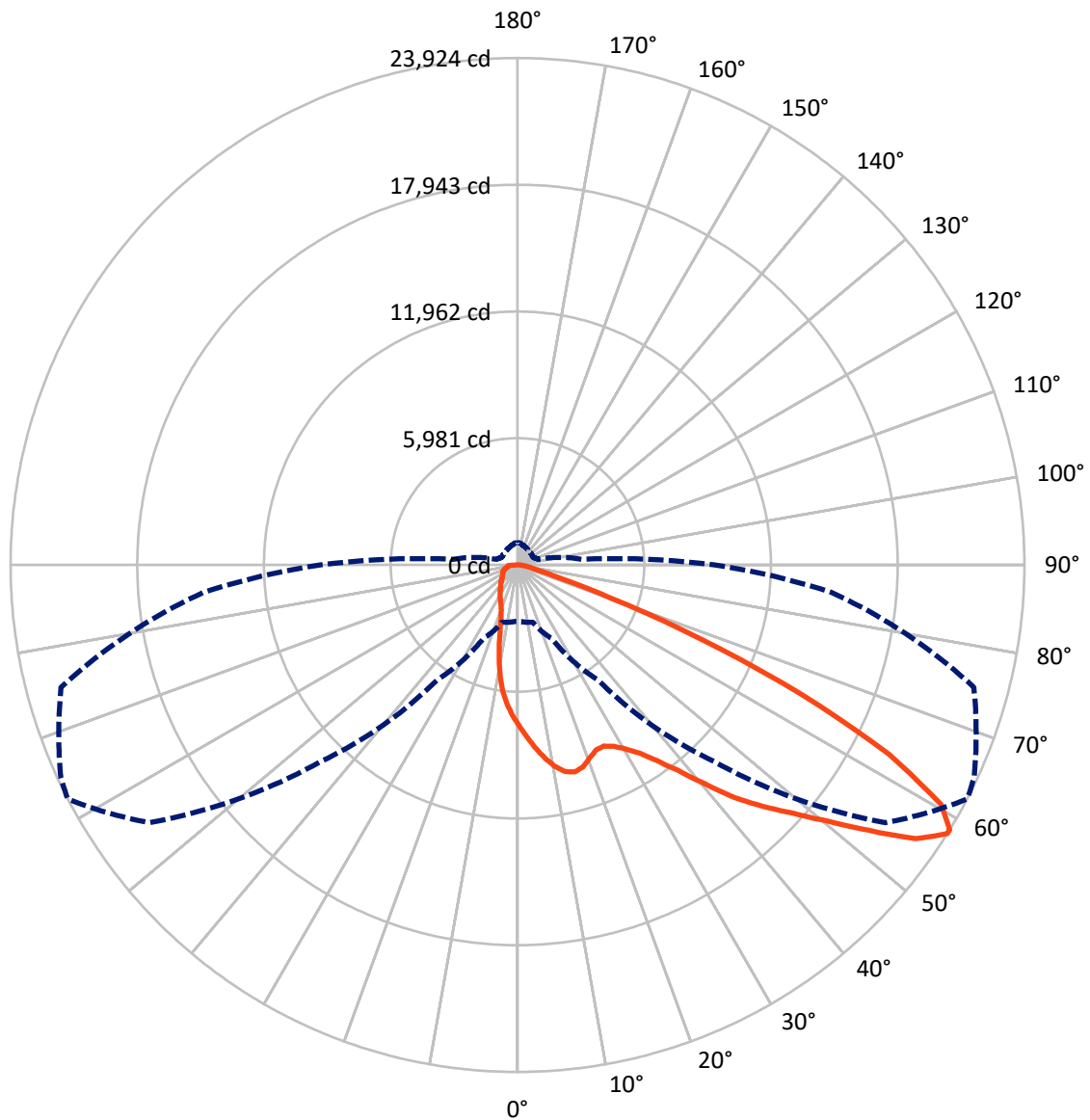


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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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	4342.8	0.0	4342.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24134.1	0.0	24134.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	28477.0	0.0	28477.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.5	2.4
10°-20°	1729.3	6.1
20°-30°	2795.4	9.8
30°-40°	4437.8	15.6
40°-50°	6493.4	22.8
50°-60°	6791.5	23.8
60°-70°	4012.4	14.1
70°-80°	1130.3	4.0
80°-90°	410.4	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°	28477.0	100.0
0°-180°	28477.0	100.0



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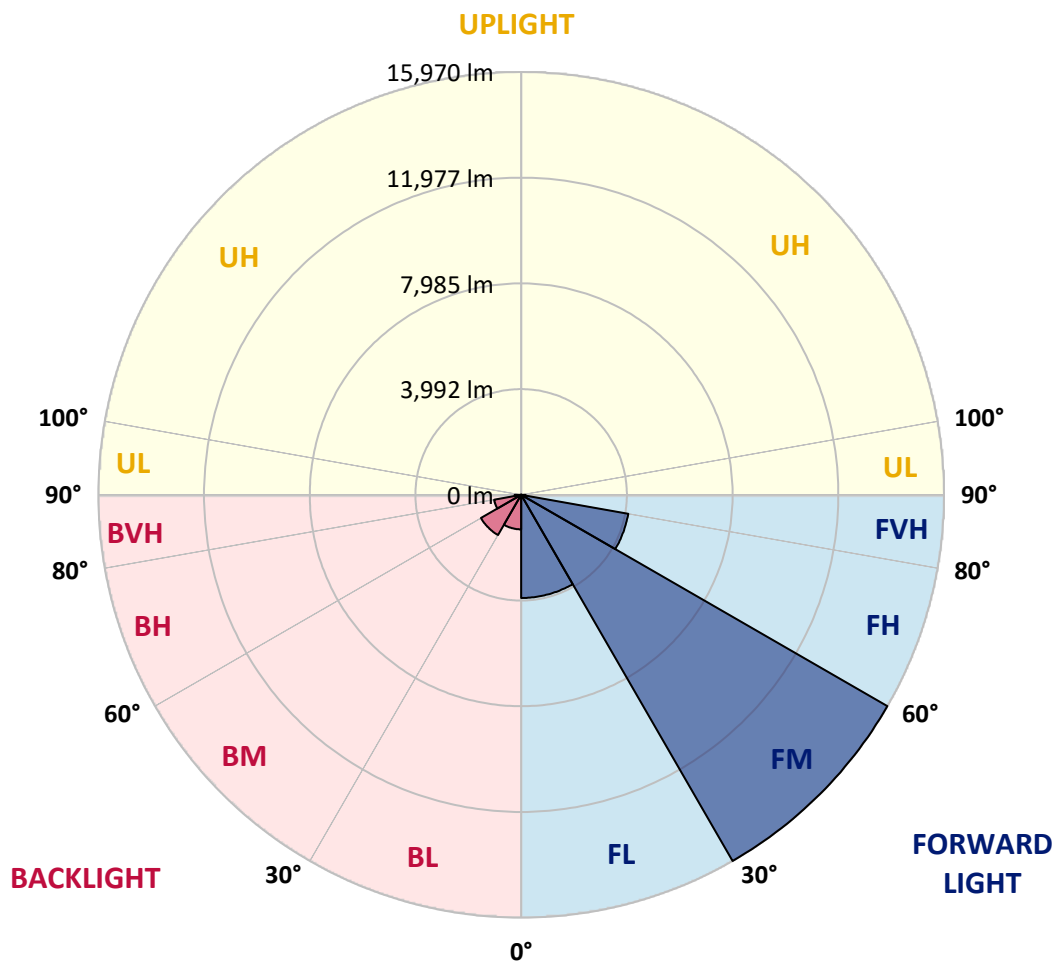
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3896.0	13.7			
FM (30°-60°)	15969.7	56.1			
FH (60°-80°)	4106.5	14.4			G2/5000
FVH (80°-90°)	161.9	0.6			G2/225
BL (0°-30°)	1305.3	4.6	B3/2500		
BM (30°-60°)	1752.9	6.2	B2/2500		
BH (60°-80°)	1036.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	248.5	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°	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3
2.5°	8643.8	8574.1	8529.8	8490.9	8440.0	8331.4	8185.2	8092.7	8045.7	7886.2	7697.1
5°	9491.3	9429.6	9384.0	9331.7	9240.5	9070.2	8834.2	8646.5	8554.0	8234.8	7856.7
7.5°	9292.8	9318.3	9397.4	9535.5	9653.5	9630.7	9420.2	9181.5	9059.5	8615.6	8041.7
10°	8096.7	8140.9	8277.7	8600.9	9123.9	9660.2	9823.8	9658.9	9535.5	8992.5	8232.1
12.5°	7856.7	7855.3	7866.1	7951.9	8263.0	9017.9	9837.3	10003.5	9929.8	9351.8	8426.6
15°	7954.6	7957.2	7949.2	7985.4	8081.9	8381.0	9426.9	10136.3	10188.6	9713.9	8627.7
17.5°	8212.0	8205.3	8174.5	8174.5	8209.3	8326.0	8944.2	10012.9	10254.3	10034.4	8804.7
20°	8643.8	8613.0	8531.2	8456.1	8418.5	8481.5	8745.7	9728.6	10140.3	10314.6	8950.9
22.5°	9166.8	9142.6	9009.9	8849.0	8718.9	8717.6	8847.6	9480.6	9943.2	10578.8	9074.3
25°	9842.6	9803.7	9606.6	9349.1	9121.2	9034.0	9070.2	9468.5	9835.9	10865.8	9184.2
27.5°	10636.5	10565.4	10332.1	9960.6	9625.4	9449.7	9397.4	9687.1	9933.8	11221.1	9337.1
30°	11599.3	11517.5	11218.4	10734.4	10261.0	9972.7	9861.4	10074.6	10258.3	11654.3	9582.5
32.5°	12694.8	12576.8	12230.9	11697.2	11075.0	10635.1	10454.1	10586.9	10733.0	12175.9	9889.6
35°	14208.8	14068.0	13567.8	12831.6	12129.0	11524.2	11234.5	11331.1	11473.2	12953.6	10333.4
37.5°	15241.3	15178.3	14845.7	14153.8	13389.4	12693.5	12245.6	12301.9	12382.4	13925.8	10902.0
40°	15231.9	15257.4	15264.1	15270.8	14750.5	14084.1	13602.7	13543.7	13527.6	14993.2	11548.3
42.5°	14468.9	14573.5	14911.4	15596.7	15913.1	15607.4	15166.2	14995.9	14911.4	16251.1	12233.5
45°	13300.9	13357.3	13990.2	15328.5	16508.5	17116.0	16782.1	16245.7	16092.8	17407.0	12802.1
47.5°	12698.9	12760.5	13158.8	14617.8	16501.8	18334.9	18528.0	17506.2	17232.6	18412.7	13292.9
50°	11265.4	11394.1	11895.6	13381.4	15899.7	18895.4	20353.0	19008.1	18442.2	19391.6	13785.0
52.5°	8633.1	8831.5	9393.4	11348.5	14372.4	18617.8	21813.3	20829.1	20029.9	20405.3	14207.4
55°	5445.6	5593.1	6065.1	8014.9	11497.4	17173.6	22367.2	22798.9	22088.2	21365.5	14573.5
57.5°	2960.8	3026.5	3203.5	4425.2	7478.5	13980.8	21559.9	23920.0	23625.0	22180.8	14849.8
58°	2649.7	2694.0	2803.9	3835.1	6632.4	13107.8	21201.9	23924.0	23776.5	22300.1	14871.2
60°	1965.8	1943.0	1845.2	2188.4	3691.7	9055.5	19037.6	22966.6	23399.7	22446.3	14766.6
62.5°	1727.2	1672.2	1472.4	1449.6	1795.5	4171.7	14566.8	19673.2	20696.3	21612.2	14131.0
65°	1622.6	1563.6	1306.1	1223.0	1295.4	1764.7	8580.8	14754.5	16037.8	19083.2	12505.8
67.5°	1544.8	1468.3	1200.2	1086.2	1091.5	1166.6	3439.6	9292.8	10737.0	14489.0	9727.3
70°	1469.7	1386.5	1110.3	978.9	948.1	922.6	1367.8	4651.8	5961.9	9152.0	6201.9
72.5°	1389.2	1307.4	1031.2	894.4	834.1	749.6	893.1	1902.8	2657.8	4329.9	2813.3
75°	1272.6	1198.8	952.1	819.3	733.5	620.9	674.5	993.6	1192.1	1724.5	1355.7
77.5°	1129.1	1068.7	863.6	757.6	650.4	504.2	519.0	689.3	764.3	986.9	805.9
80°	811.3	832.7	768.4	681.2	579.3	409.0	398.3	502.9	543.1	634.3	524.3
82.5°	569.9	582.0	635.6	556.5	478.7	321.8	293.7	354.0	378.1	417.0	282.9
85°	392.9	379.5	435.8	387.5	346.0	214.6	201.1	240.0	254.8	258.8	146.2
87.5°	236.0	236.0	252.1	207.8	186.4	111.3	108.6	136.8	146.2	139.5	80.5
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°	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3	7564.3
2.5°	7584.4	7489.2	7286.8	7124.5	6919.3	6706.1	6586.8	6459.4	6372.2	6309.2	6409.8
5°	7642.1	7447.7	7029.3	6632.4	6193.9	5738.0	5392.0	5070.2	4846.2	4706.8	4838.2
7.5°	7733.3	7434.3	6767.8	6089.3	5302.1	4543.2	3864.6	3439.6	3191.5	3069.4	3145.9
10°	7837.9	7412.8	6460.7	5353.1	4226.7	3270.6	2763.7	2592.1	2535.7	2513.0	2523.7
12.5°	7925.1	7367.2	6083.9	4462.7	3174.0	2582.7	2436.5	2432.5	2444.6	2447.2	2451.3
15°	7986.7	7300.2	5524.7	3534.8	2538.4	2353.4	2345.3	2369.5	2392.3	2401.7	2407.0
17.5°	8028.3	7162.0	4893.1	2794.6	2274.3	2242.1	2260.9	2291.7	2315.8	2322.5	2327.9
20°	8024.3	6959.6	4140.9	2330.6	2130.8	2130.8	2163.0	2187.1	2188.4	2180.4	2184.4
22.5°	7982.7	6682.0	3411.4	2083.8	2003.4	2026.2	2058.4	2035.6	1941.7	1880.0	1884.0
25°	7913.0	6350.8	2786.5	1927.0	1885.4	1925.6	1916.2	1744.6	1610.5	1550.1	1550.1
27.5°	7851.3	5959.2	2306.4	1790.2	1767.4	1817.0	1650.7	1495.2	1438.8	1410.7	1401.3
30°	7807.0	5536.8	1986.0	1658.8	1656.1	1619.9	1432.1	1389.2	1379.8	1357.0	1349.0
32.5°	7817.8	5109.0	1780.8	1543.4	1552.8	1386.5	1327.5	1336.9	1328.9	1304.8	1294.0
35°	7906.3	4702.7	1646.7	1438.8	1410.7	1252.5	1265.9	1283.3	1280.6	1247.1	1236.4
37.5°	8064.5	4317.9	1558.2	1351.7	1231.0	1185.4	1206.9	1233.7	1227.0	1204.2	1196.1
40°	8230.8	3955.8	1485.8	1283.3	1125.1	1139.8	1158.6	1173.3	1180.0	1186.7	1181.4
42.5°	8393.0	3577.7	1397.3	1213.6	1080.8	1096.9	1104.9	1119.7	1155.9	1181.4	1180.0
45°	8489.6	3222.3	1306.1	1114.3	1045.9	1055.3	1050.0	1079.5	1123.7	1165.3	1166.6
47.5°	8596.9	2946.1	1233.7	1023.1	1012.4	1019.1	1003.0	1032.5	1072.8	1123.7	1129.1
50°	8726.9	2781.1	1176.0	950.7	966.8	966.8	962.8	989.6	1045.9	1104.9	1115.7
52.5°	8874.4	2749.0	1127.7	898.4	921.2	919.9	923.9	964.1	1025.8	1083.5	1092.9
55°	9054.1	2836.1	1075.4	859.6	877.0	882.3	895.8	941.4	993.6	1059.4	1063.4
57.5°	9263.3	3013.1	1033.9	828.7	836.8	854.2	875.6	917.2	973.5	1045.9	1050.0
58°	9298.2	3050.7	1027.2	826.0	828.7	848.8	873.0	913.2	969.5	1048.6	1052.7
60°	9299.5	3175.4	1012.4	814.0	797.9	831.4	858.2	898.4	962.8	1058.0	1067.4
62.5°	8969.7	3174.0	1001.7	796.5	765.7	807.3	838.1	885.0	956.1	1080.8	1099.6
65°	7898.2	2884.4	950.7	769.7	740.2	785.8	820.7	875.6	974.9	1180.0	1192.1
67.5°	6177.8	2364.1	855.5	732.2	706.7	764.3	809.9	874.3	995.0	1202.8	1210.9
70°	4084.6	1768.7	750.9	689.3	671.8	738.9	815.3	919.9	972.2	1154.6	1133.1
72.5°	2120.1	1241.7	666.5	635.6	631.6	716.1	893.1	914.5	949.4	1086.2	1059.4
75°	1113.0	862.2	592.7	576.6	583.3	710.7	1054.0	890.4	919.9	1039.2	1090.2
77.5°	681.2	696.0	529.7	523.0	536.4	694.6	1052.7	859.6	877.0	956.1	1012.4
80°	455.9	564.5	481.4	482.7	492.1	635.6	945.4	811.3	824.7	903.8	961.5
82.5°	288.3	333.9	437.2	459.9	447.9	524.3	803.2	738.9	757.6	1033.9	1092.9
85°	146.2	209.2	379.5	442.5	403.6	367.4	651.7	647.7	657.1	745.6	779.1
87.5°	67.0	115.3	296.4	386.2	304.4	229.3	473.4	480.1	517.6	529.7	529.7
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)