

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: P191379

Luminaire Tested: **GAN-AF-01-LED-U-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6863 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

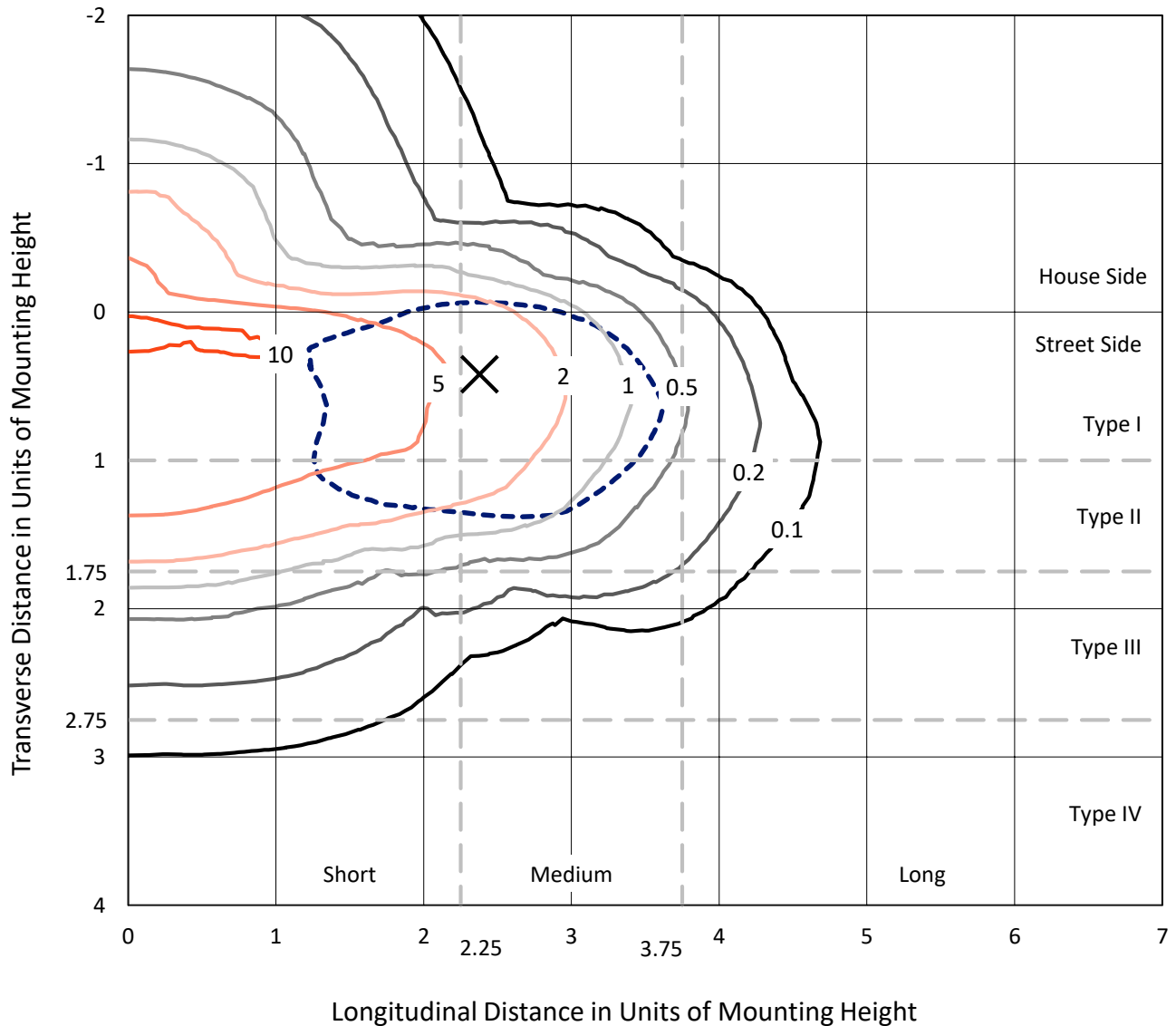
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

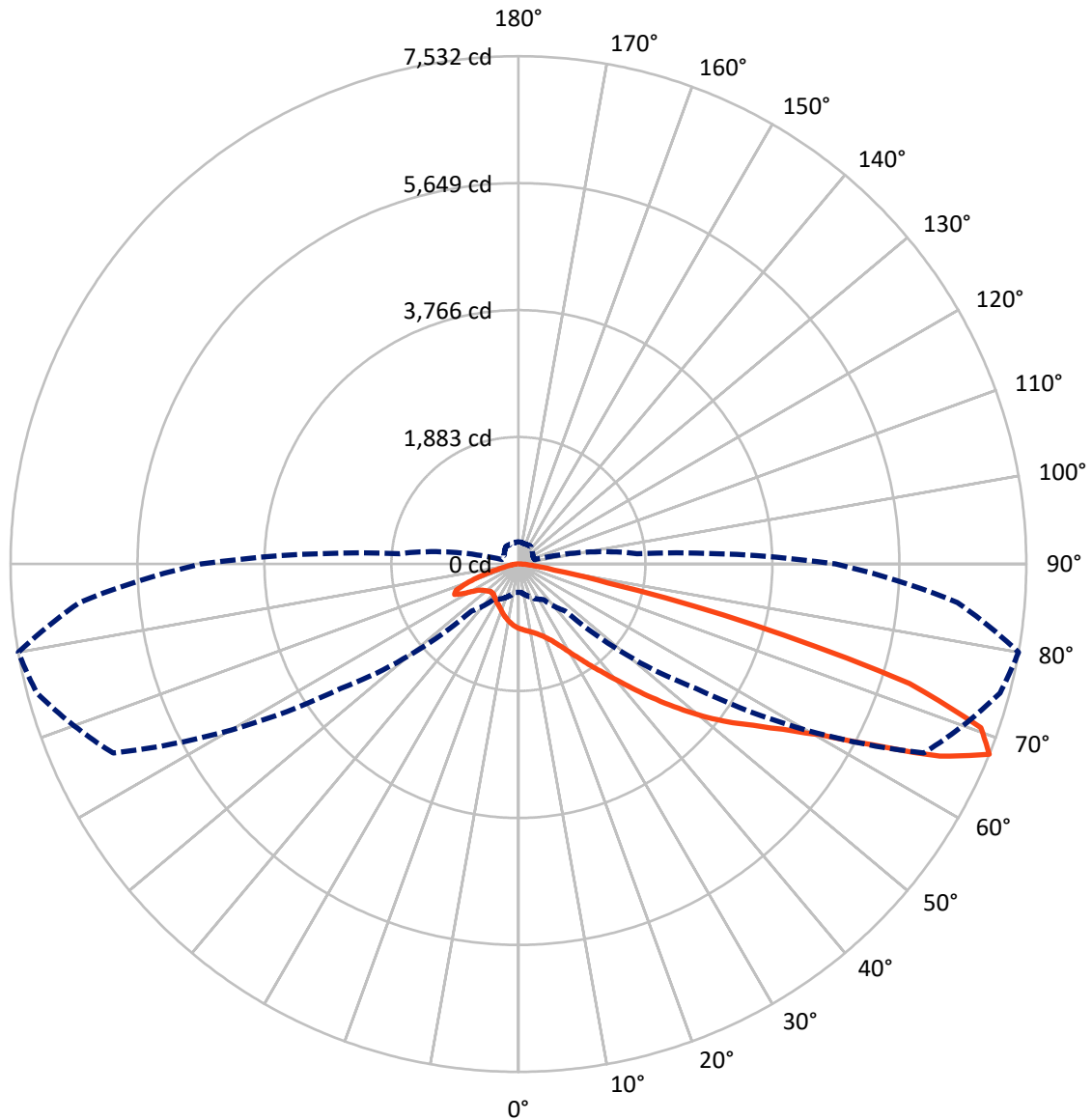
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.9	0.0	1263.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5599.1	0.0	5599.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	6863.0	0.0	6863.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.3
10°-20°	253.4	3.7
20°-30°	419.4	6.1
30°-40°	686.0	10.0
40°-50°	1107.6	16.1
50°-60°	1599.1	23.3
60°-70°	1764.7	25.7
70°-80°	813.4	11.9
80°-90°	131.6	1.9
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°	6863.0	100.0
0°-180°	6863.0	100.0



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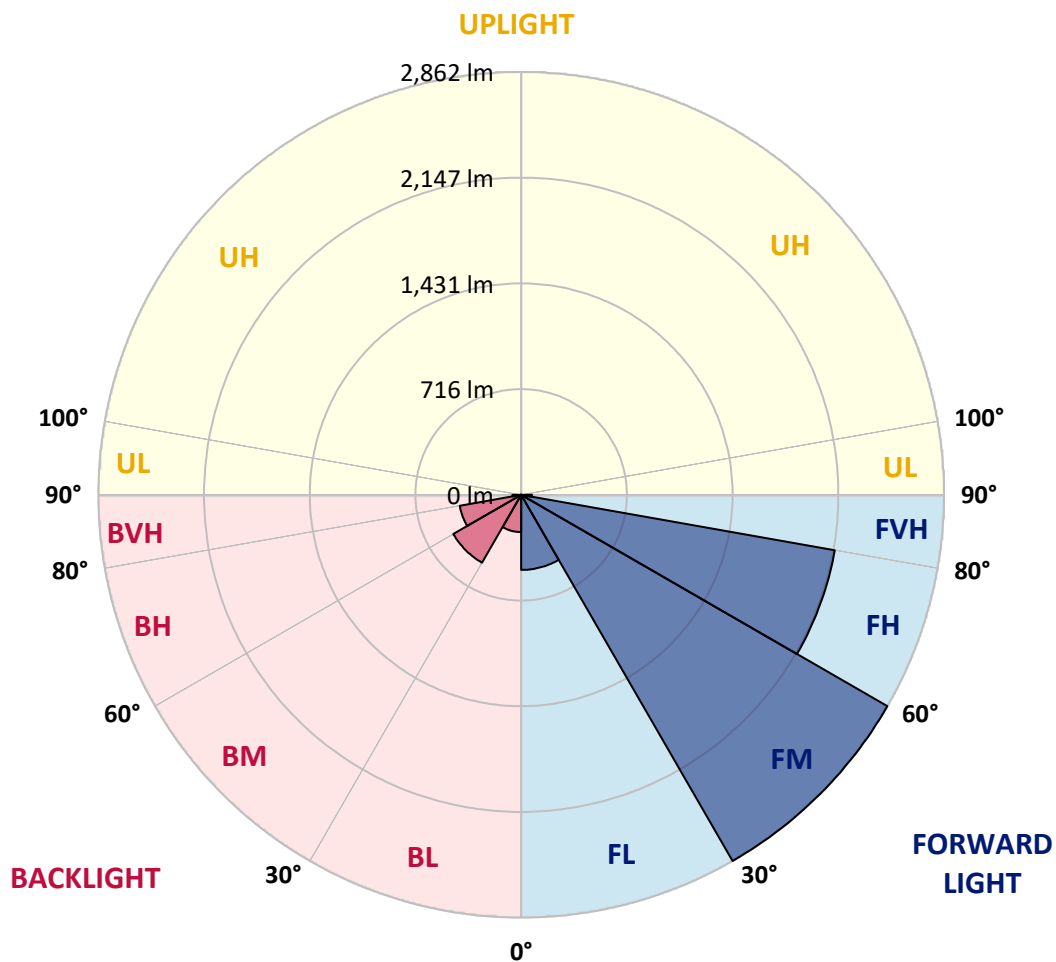
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.5	7.4			
FM	(30°-60°)	2862.4	41.7			
FH	(60°-80°)	2155.8	31.4			G2/5000
FVH	(80°-90°)	72.3	1.1			G1/100
BL	(0°-30°)	252.2	3.7	B1/500		
BM	(30°-60°)	530.3	7.7	B1/1000		
BH	(60°-80°)	422.2	6.2	B1/500		G1/500
BVH	(80°-90°)	59.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5
2.5°	1043.0	1037.0	1037.9	1036.2	1031.1	1022.4	1012.9	995.7	977.8	968.3	960.9
5°	1130.2	1128.5	1126.2	1120.7	1107.9	1089.6	1067.0	1036.6	1003.8	986.5	970.1
7.5°	1195.4	1194.4	1191.3	1188.0	1175.5	1153.5	1119.3	1076.1	1028.5	1004.8	979.2
10°	1200.7	1202.5	1204.8	1213.9	1215.7	1203.8	1169.0	1116.7	1054.2	1023.8	990.9
12.5°	1154.8	1158.6	1167.7	1191.0	1215.7	1230.2	1212.3	1159.2	1084.2	1047.4	1005.9
15°	1094.0	1096.1	1107.2	1139.3	1183.6	1228.5	1245.3	1206.2	1123.1	1077.8	1028.2
17.5°	1068.0	1069.0	1076.8	1098.0	1139.3	1203.5	1264.0	1257.2	1170.8	1115.6	1055.5
20°	1054.9	1057.2	1068.4	1089.3	1115.3	1171.4	1266.7	1312.2	1227.4	1163.0	1090.0
22.5°	1092.3	1091.3	1095.4	1105.8	1127.8	1161.6	1264.7	1369.0	1299.8	1223.8	1134.9
25°	1179.9	1183.6	1176.5	1164.6	1171.7	1195.4	1275.4	1430.5	1390.3	1301.8	1193.7
27.5°	1304.5	1300.8	1290.4	1262.6	1248.1	1258.2	1311.3	1496.8	1502.8	1404.5	1271.4
30°	1428.9	1425.8	1415.7	1381.9	1352.1	1343.7	1380.9	1572.8	1636.9	1527.9	1366.7
32.5°	1558.0	1554.6	1545.1	1511.3	1475.5	1455.9	1479.9	1660.7	1795.1	1675.2	1478.9
35°	1717.0	1710.7	1690.7	1643.8	1608.6	1593.3	1604.5	1771.1	1977.6	1849.5	1615.0
37.5°	1866.7	1876.5	1856.2	1791.4	1745.8	1740.3	1752.8	1906.0	2174.2	2044.5	1771.4
40°	2017.1	2018.8	2000.5	1947.5	1900.5	1891.7	1923.1	2069.4	2406.3	2277.6	1961.7
42.5°	2172.5	2175.9	2145.1	2096.1	2061.7	2063.4	2099.2	2261.0	2672.6	2552.3	2180.6
45°	2356.7	2361.7	2327.9	2263.7	2232.3	2295.5	2280.6	2476.0	2964.5	2864.5	2432.0
47.5°	2549.2	2557.0	2531.3	2471.1	2432.0	2518.8	2462.0	2714.1	3278.7	3199.3	2708.1
50°	2654.3	2665.4	2690.5	2686.1	2677.6	2663.0	2664.5	2969.5	3602.7	3548.0	2991.8
52.5°	2597.9	2597.6	2688.7	2799.6	2917.9	2926.7	2911.1	3238.8	3905.4	3888.8	3259.1
55°	2339.8	2357.3	2495.5	2710.0	3033.0	3234.8	3280.7	3547.3	4202.8	4222.0	3530.4
57.5°	1910.0	1924.5	2111.0	2410.1	2877.7	3417.9	3806.4	3995.6	4535.3	4625.1	3891.6
60°	1295.4	1313.0	1510.6	1869.7	2459.4	3315.9	4306.8	4795.7	4933.2	5137.7	4398.4
62.5°	761.2	777.1	938.3	1179.5	1731.5	2841.9	4526.5	5934.0	5565.4	5911.0	5171.4
65°	524.1	534.8	613.3	734.2	995.0	1914.0	4254.1	6719.9	6538.1	6869.2	6067.8
67.5°	421.7	420.3	482.5	564.9	640.6	986.9	3216.9	6631.0	7393.6	7531.8	6533.1
70°	347.3	346.0	388.2	456.4	511.9	555.8	1752.2	5595.7	7219.3	7275.3	6104.7
72.5°	290.5	292.0	319.0	369.6	419.9	418.6	770.0	3936.5	5679.2	6067.1	4866.4
75°	245.3	246.0	263.9	299.7	340.9	337.2	417.6	2132.6	3301.4	3571.3	2697.5
77.5°	208.8	209.5	221.0	240.9	270.3	268.9	304.7	921.4	1377.2	1360.2	922.7
80°	186.2	186.2	191.6	195.3	211.5	205.4	226.1	442.6	582.2	537.6	368.3
82.5°	146.0	146.6	179.7	178.4	166.5	158.8	158.8	260.9	308.5	285.2	215.5
85°	82.1	81.7	115.9	139.8	146.6	111.8	110.8	146.0	168.0	148.0	104.4
87.5°	35.2	35.8	53.7	62.2	83.2	69.6	68.5	75.4	85.5	74.0	48.3
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°	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5	953.5
2.5°	953.8	945.0	925.8	901.7	880.1	865.9	853.1	834.5	835.5	822.8	813.2
5°	953.1	934.9	890.3	837.3	786.2	749.4	721.7	696.7	690.6	678.8	671.7
7.5°	953.8	924.0	849.0	764.2	701.0	654.5	630.8	617.7	614.6	610.5	610.9
10°	956.2	914.3	803.8	696.0	629.8	599.0	593.3	597.4	602.1	603.4	603.7
12.5°	961.6	905.5	754.1	635.2	585.2	575.7	585.5	599.3	608.6	612.8	612.5
15°	973.7	898.8	706.4	587.6	560.5	565.6	583.8	603.4	616.6	622.7	623.1
17.5°	986.9	888.9	657.5	551.1	542.3	555.2	577.8	600.8	616.9	623.7	625.0
20°	1004.1	876.8	606.1	523.6	525.1	539.6	560.9	583.8	601.7	607.5	610.2
22.5°	1026.7	863.6	561.2	501.3	505.4	516.6	533.2	553.1	568.7	571.3	573.7
25°	1057.2	849.4	525.4	481.1	482.8	489.3	500.4	512.2	523.0	520.0	522.3
27.5°	1098.0	837.3	498.7	462.6	459.5	460.8	466.6	470.4	476.1	467.6	468.6
30°	1146.0	824.1	478.1	446.3	437.9	435.5	436.9	438.8	443.2	431.8	430.2
32.5°	1201.8	808.2	458.8	432.1	420.3	415.6	416.2	421.7	438.5	431.5	427.7
35°	1266.7	790.2	438.5	416.5	408.5	401.7	401.1	418.0	468.3	463.9	460.5
37.5°	1342.7	772.3	418.3	399.1	399.7	392.3	389.9	409.2	474.0	456.8	454.4
40°	1439.3	762.9	401.1	380.4	388.9	387.9	383.1	392.9	436.2	404.8	400.7
42.5°	1559.0	764.2	388.2	360.5	376.0	386.9	379.4	379.7	395.3	371.6	368.0
45°	1706.6	780.1	379.1	344.6	361.5	385.9	378.1	372.7	374.0	361.5	359.5
47.5°	1878.9	812.9	372.7	331.4	347.7	382.2	377.8	370.6	367.6	360.8	359.2
50°	2070.5	860.5	368.0	319.0	335.1	376.0	378.1	368.6	365.2	362.5	361.5
52.5°	2258.7	914.9	360.8	308.1	325.4	368.6	379.1	366.6	362.8	360.8	359.9
55°	2468.5	982.9	350.1	299.0	317.2	359.2	379.1	363.6	359.5	359.9	359.5
57.5°	2751.9	1092.7	337.2	291.2	307.5	347.7	372.7	360.2	355.1	355.5	355.8
60°	3194.9	1286.3	321.6	283.5	295.3	334.2	363.9	352.7	347.7	349.0	349.3
62.5°	3846.3	1570.4	301.4	272.0	282.4	319.7	351.7	343.3	338.2	341.6	341.6
65°	4523.4	1821.2	276.4	257.5	268.9	303.7	336.6	331.4	326.4	334.2	333.8
67.5°	4705.5	1765.0	251.3	241.6	255.4	286.2	318.2	315.6	312.8	326.4	325.7
70°	4180.1	1417.0	228.4	225.4	240.6	267.3	298.7	298.7	297.0	307.1	304.7
72.5°	3184.8	1004.8	206.4	208.2	223.7	246.6	277.4	279.8	277.0	282.1	280.1
75°	1704.8	575.1	184.4	189.2	202.7	225.7	253.7	256.1	254.4	254.1	255.1
77.5°	566.6	281.1	161.5	168.9	180.8	204.1	229.0	232.8	228.7	228.0	227.7
80°	252.4	176.7	136.2	146.0	156.4	179.4	203.1	206.1	201.7	207.8	200.0
82.5°	162.1	116.2	109.1	120.0	130.1	154.8	177.1	177.7	173.7	201.7	172.0
85°	78.8	72.0	82.1	91.9	100.7	121.6	146.6	147.0	136.9	124.7	120.3
87.5°	39.2	41.9	54.7	63.5	67.9	83.5	106.8	104.8	100.4	91.2	84.1
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)