

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: P192740

Luminaire Tested: **GAN-AF-02-LED-U-RW-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-RW-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9727.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

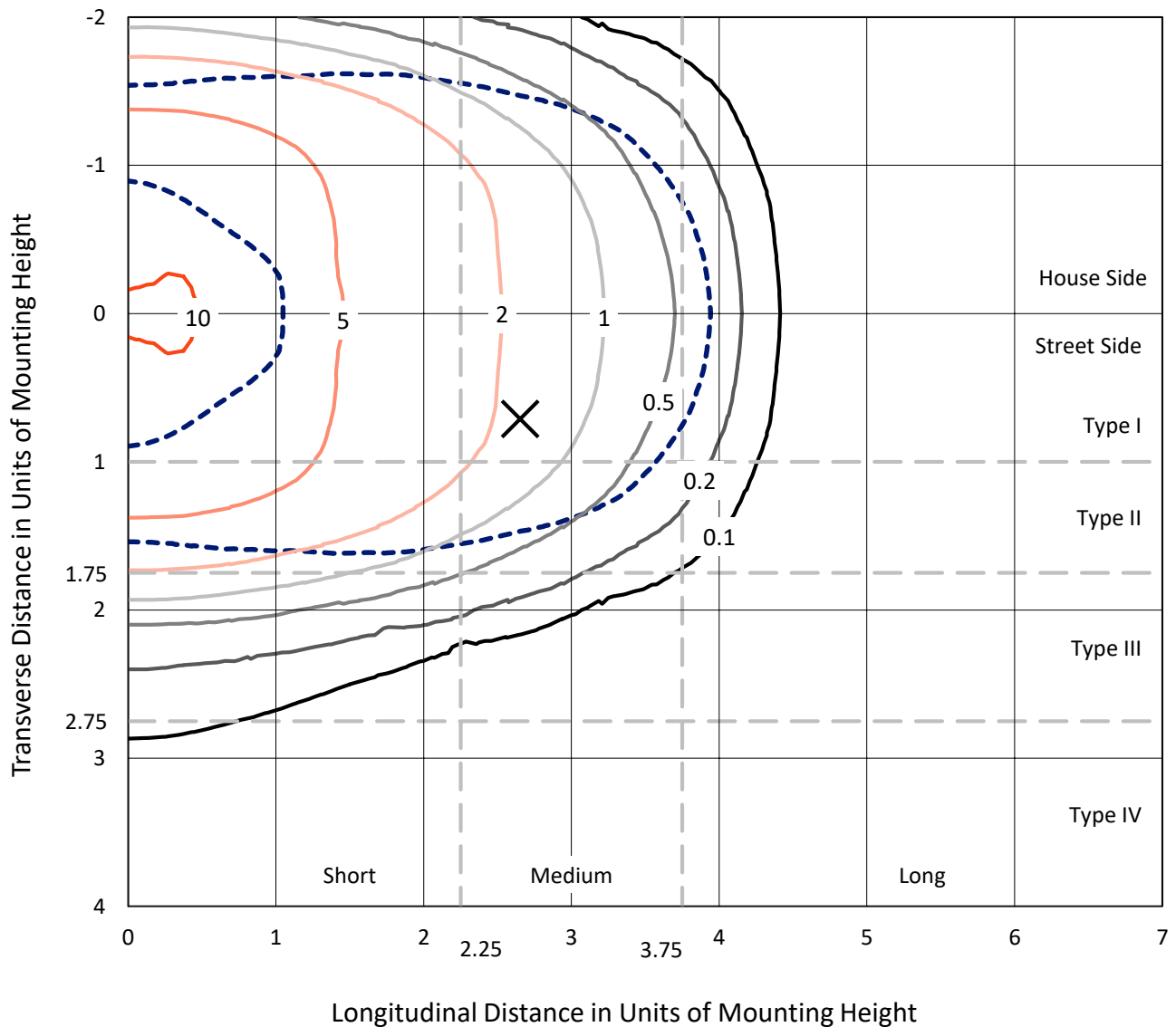
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

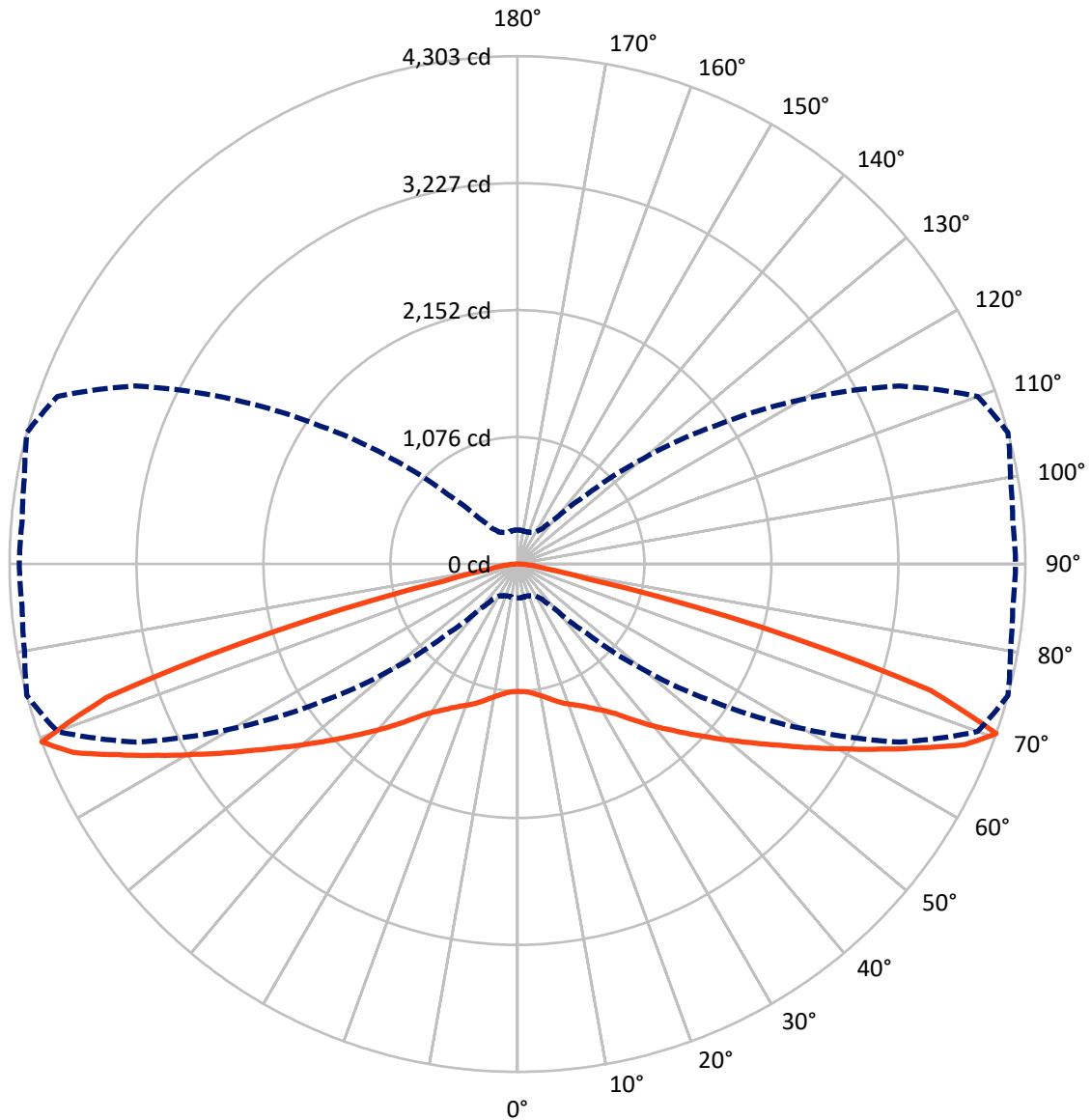
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4863.7	0.0	4863.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4863.7	0.0	4863.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9727.3	0.0	9727.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	1.1
10°-20°	321.5	3.3
20°-30°	605.2	6.2
30°-40°	1071.7	11.0
40°-50°	1792.2	18.4
50°-60°	2497.4	25.7
60°-70°	2315.9	23.8
70°-80°	923.0	9.5
80°-90°	97.0	1.0
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°	9727.3	100.0
0°-180°	9727.3	100.0



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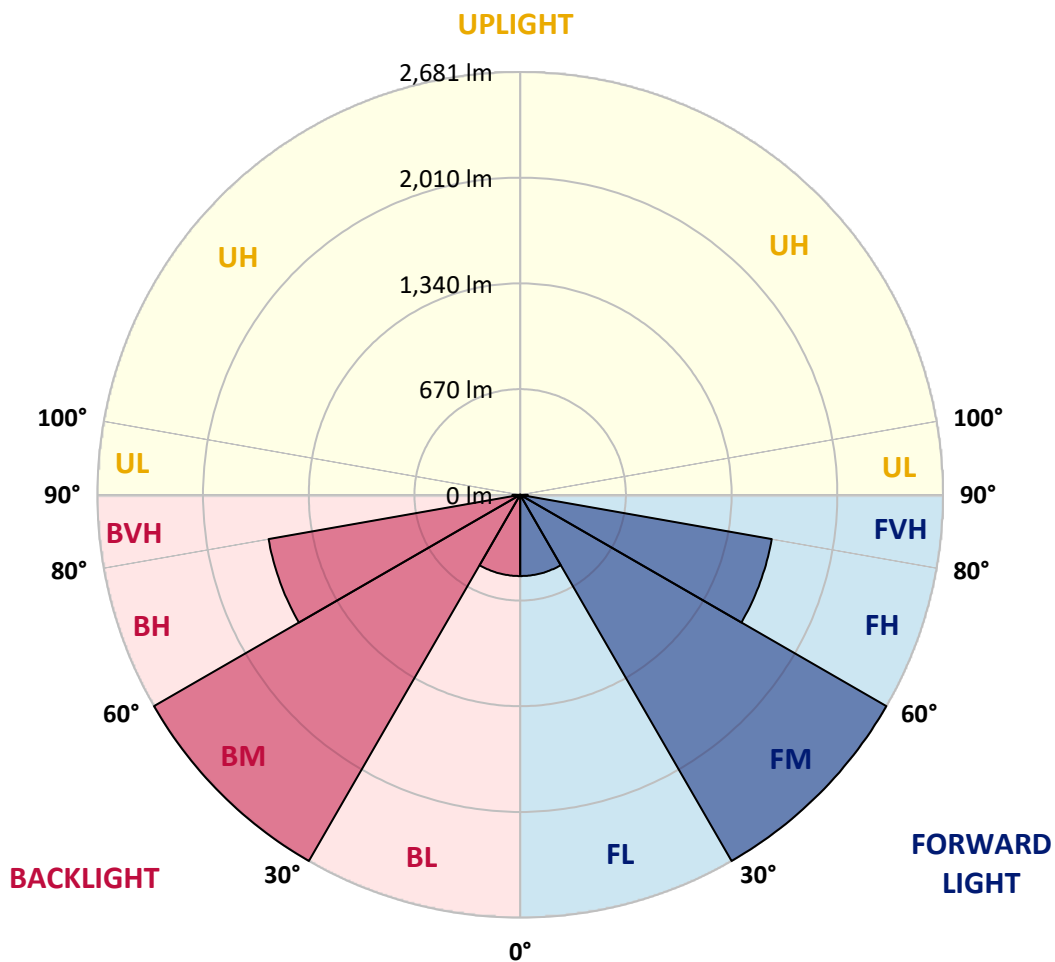
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.1	5.3			
FM	(30°-60°)	2680.6	27.6			
FH	(60°-80°)	1619.4	16.6			G1/1800
FVH	(80°-90°)	48.5	0.5			G1/100
BL	(0°-30°)	515.1	5.3	B2/1000		
BM	(30°-60°)	2680.6	27.6	B3/5000		
BH	(60°-80°)	1619.4	16.6	B3/2500		G1/1800
BVH	(80°-90°)	48.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1077.2	1076.2	1077.2	1076.6	1077.7	1077.7	1078.5	1080.3	1080.3	1081.7	1081.3
5°	1066.6	1066.2	1067.5	1068.9	1070.3	1073.0	1075.7	1079.9	1083.1	1085.4	1087.6
7.5°	1045.9	1045.9	1047.7	1051.0	1054.2	1060.2	1066.6	1074.9	1083.1	1090.0	1096.0
10°	1028.9	1029.8	1032.1	1037.6	1043.1	1052.2	1061.0	1073.0	1084.5	1096.0	1105.1
12.5°	1018.8	1020.2	1024.3	1032.6	1041.8	1054.2	1067.5	1082.6	1095.6	1109.3	1118.5
15°	1022.0	1022.8	1028.9	1038.9	1051.0	1066.6	1084.5	1102.4	1117.6	1132.4	1144.7
17.5°	1039.9	1041.2	1048.3	1059.7	1072.1	1090.5	1109.7	1130.1	1148.9	1165.5	1180.5
20°	1072.1	1073.5	1082.2	1094.7	1109.3	1128.2	1147.4	1168.6	1189.9	1207.2	1224.2
22.5°	1117.6	1119.9	1128.2	1140.5	1157.2	1177.4	1200.3	1222.9	1243.2	1259.2	1274.4
25°	1177.4	1182.4	1190.3	1204.0	1221.5	1239.9	1264.6	1287.7	1307.1	1322.1	1333.2
27.5°	1262.0	1268.8	1274.8	1288.1	1305.2	1322.7	1347.5	1367.7	1386.1	1400.8	1409.1
30°	1374.2	1381.0	1387.0	1399.8	1415.6	1432.1	1455.6	1473.5	1485.0	1496.5	1496.0
32.5°	1510.2	1517.6	1519.9	1533.7	1549.8	1567.7	1588.8	1598.9	1608.2	1609.5	1601.2
35°	1662.4	1666.1	1675.3	1693.6	1712.1	1726.8	1746.9	1752.1	1752.1	1745.1	1726.8
37.5°	1829.2	1831.6	1844.4	1865.2	1883.9	1899.2	1912.9	1923.1	1918.0	1903.3	1872.4
40°	2012.2	2016.4	2034.7	2053.2	2074.3	2088.6	2103.2	2105.1	2100.1	2078.4	2036.6
42.5°	2187.0	2190.6	2209.0	2237.9	2265.6	2285.3	2299.2	2301.9	2285.8	2266.0	2214.0
45°	2337.3	2346.9	2370.8	2404.9	2444.9	2472.9	2491.7	2499.6	2485.3	2459.5	2399.4
47.5°	2456.3	2466.0	2500.1	2540.5	2590.1	2635.7	2666.9	2683.4	2679.8	2660.5	2594.7
50°	2543.7	2552.9	2589.7	2639.2	2697.3	2753.8	2807.1	2846.6	2860.4	2851.6	2791.5
52.5°	2553.8	2569.0	2612.2	2678.8	2754.2	2831.5	2907.4	2974.5	3019.9	3026.9	2982.2
55°	2412.7	2427.8	2487.7	2586.5	2698.6	2824.6	2945.9	3059.0	3148.8	3194.6	3171.2
57.5°	2079.9	2106.9	2169.9	2285.8	2450.8	2639.2	2832.9	3033.8	3216.3	3338.1	3361.6
60°	1593.9	1626.1	1689.4	1812.7	1996.6	2221.5	2479.7	2776.9	3099.0	3373.1	3536.7
62.5°	1022.4	1052.8	1119.5	1226.6	1376.4	1620.1	1897.3	2249.9	2683.0	3115.6	3505.5
65°	525.4	542.0	577.0	641.8	758.6	940.6	1189.3	1541.0	2036.1	2569.9	3133.5
67.5°	332.8	336.1	343.8	353.1	383.0	445.9	561.8	781.1	1188.4	1745.1	2404.9
70°	287.8	287.8	284.1	282.8	286.4	295.1	313.0	364.2	501.6	828.4	1387.0
72.5°	263.5	260.7	254.2	249.2	248.2	248.2	252.0	259.7	281.8	337.4	542.9
75°	242.8	234.9	226.1	220.1	217.9	215.6	215.1	216.6	221.1	229.9	259.3
77.5°	217.4	207.4	197.2	191.2	188.5	185.3	182.5	179.3	177.0	179.7	192.7
80°	187.2	175.6	167.8	164.1	161.3	156.8	150.8	145.4	140.2	139.3	147.1
82.5°	150.8	137.4	137.8	139.3	134.3	127.9	121.4	115.4	106.6	102.0	106.6
85°	121.9	114.9	111.7	120.4	113.1	103.5	93.3	82.7	69.0	57.9	63.0
87.5°	47.3	47.3	70.8	108.9	97.9	80.0	68.5	58.4	36.3	28.1	28.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1080.8	1081.7	1081.3	1080.8	1080.8	1080.3	1080.8	1080.8
5°	1089.1	1091.4	1091.4	1092.4	1092.4	1092.8	1093.2	1092.8
7.5°	1101.6	1105.7	1108.4	1111.6	1112.0	1112.6	1113.5	1112.6
10°	1113.9	1122.2	1128.2	1134.1	1137.0	1137.8	1138.8	1138.8
12.5°	1129.5	1141.1	1151.6	1162.2	1167.2	1170.0	1170.0	1171.8
15°	1155.3	1166.8	1179.2	1193.4	1202.2	1206.8	1208.2	1208.2
17.5°	1191.6	1201.8	1212.3	1226.1	1237.2	1243.2	1244.5	1244.0
20°	1234.0	1243.6	1249.6	1258.3	1268.0	1274.8	1276.7	1276.7
22.5°	1282.1	1287.7	1288.6	1291.3	1299.2	1308.4	1312.5	1313.4
25°	1335.4	1336.9	1333.2	1333.2	1338.3	1347.0	1351.1	1351.6
27.5°	1404.5	1397.5	1388.3	1385.2	1388.3	1398.5	1403.6	1405.4
30°	1490.4	1473.9	1452.7	1441.2	1439.4	1452.7	1462.0	1463.3
32.5°	1588.8	1564.9	1536.8	1513.5	1507.4	1515.8	1526.8	1526.4
35°	1705.6	1677.1	1643.0	1613.2	1599.4	1607.6	1623.3	1625.1
37.5°	1840.3	1803.1	1764.0	1726.3	1704.7	1706.9	1723.6	1729.0
40°	1990.6	1942.4	1893.1	1842.6	1811.8	1805.8	1826.0	1829.2
42.5°	2151.6	2089.5	2027.5	1964.9	1925.3	1916.2	1939.6	1938.3
45°	2323.1	2243.9	2171.3	2102.3	2055.5	2041.6	2060.9	2060.9
47.5°	2507.4	2409.9	2323.5	2245.3	2194.3	2174.5	2193.0	2194.3
50°	2702.7	2599.3	2497.7	2410.8	2349.7	2324.4	2348.3	2352.1
52.5°	2897.2	2796.6	2694.0	2594.7	2520.7	2489.9	2517.5	2529.5
55°	3094.4	2995.6	2897.7	2800.7	2712.9	2676.6	2706.1	2721.1
57.5°	3302.7	3211.2	3117.9	3019.9	2935.4	2878.9	2910.1	2930.4
60°	3546.9	3468.7	3371.6	3263.7	3178.2	3120.7	3138.6	3156.5
62.5°	3740.0	3770.2	3687.9	3563.0	3453.0	3379.5	3397.0	3415.8
65°	3646.6	3957.8	4030.9	3904.5	3752.3	3637.9	3630.4	3640.2
67.5°	3048.0	3652.5	4093.4	4213.9	4086.6	3927.5	3898.1	3912.3
70°	2038.9	2791.9	3569.8	4149.1	4303.0	4241.5	4212.5	4221.2
72.5°	979.2	1626.1	2421.8	3191.9	3660.8	3876.0	3945.0	3978.5
75°	358.2	645.5	1167.2	1759.0	2123.5	2458.3	2676.6	2765.8
77.5°	216.2	260.7	372.8	561.4	635.8	711.8	682.3	697.0
80°	159.9	180.8	204.6	229.9	238.1	238.1	228.9	221.6
82.5°	112.2	125.5	137.0	150.8	154.5	147.6	121.4	96.5
85°	72.2	78.1	83.2	92.0	89.7	85.5	57.5	51.1
87.5°	33.1	37.7	39.6	43.7	41.8	40.0	28.5	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)