

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: P192639

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6964.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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



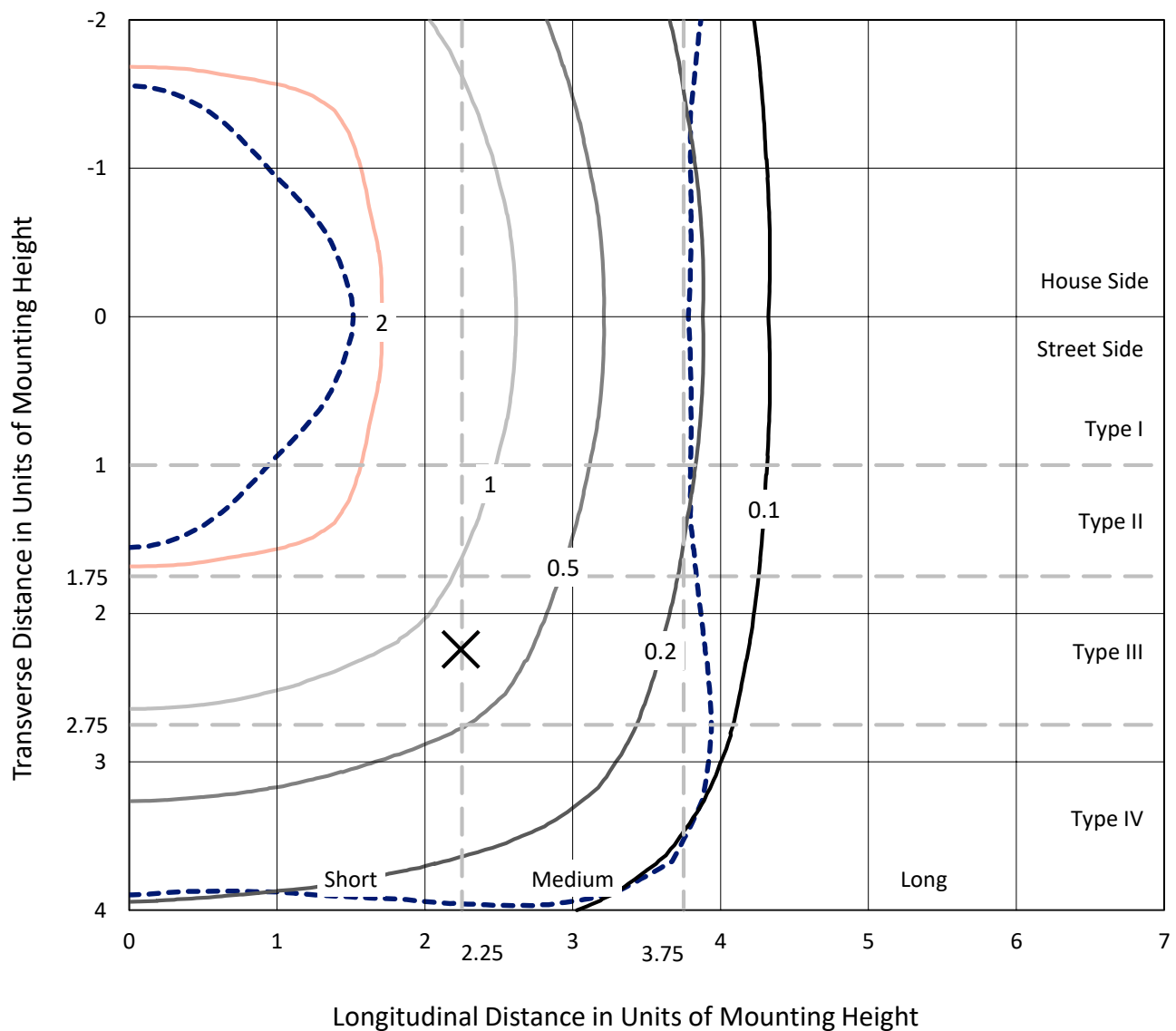
REPORT NUMBER: P192639

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



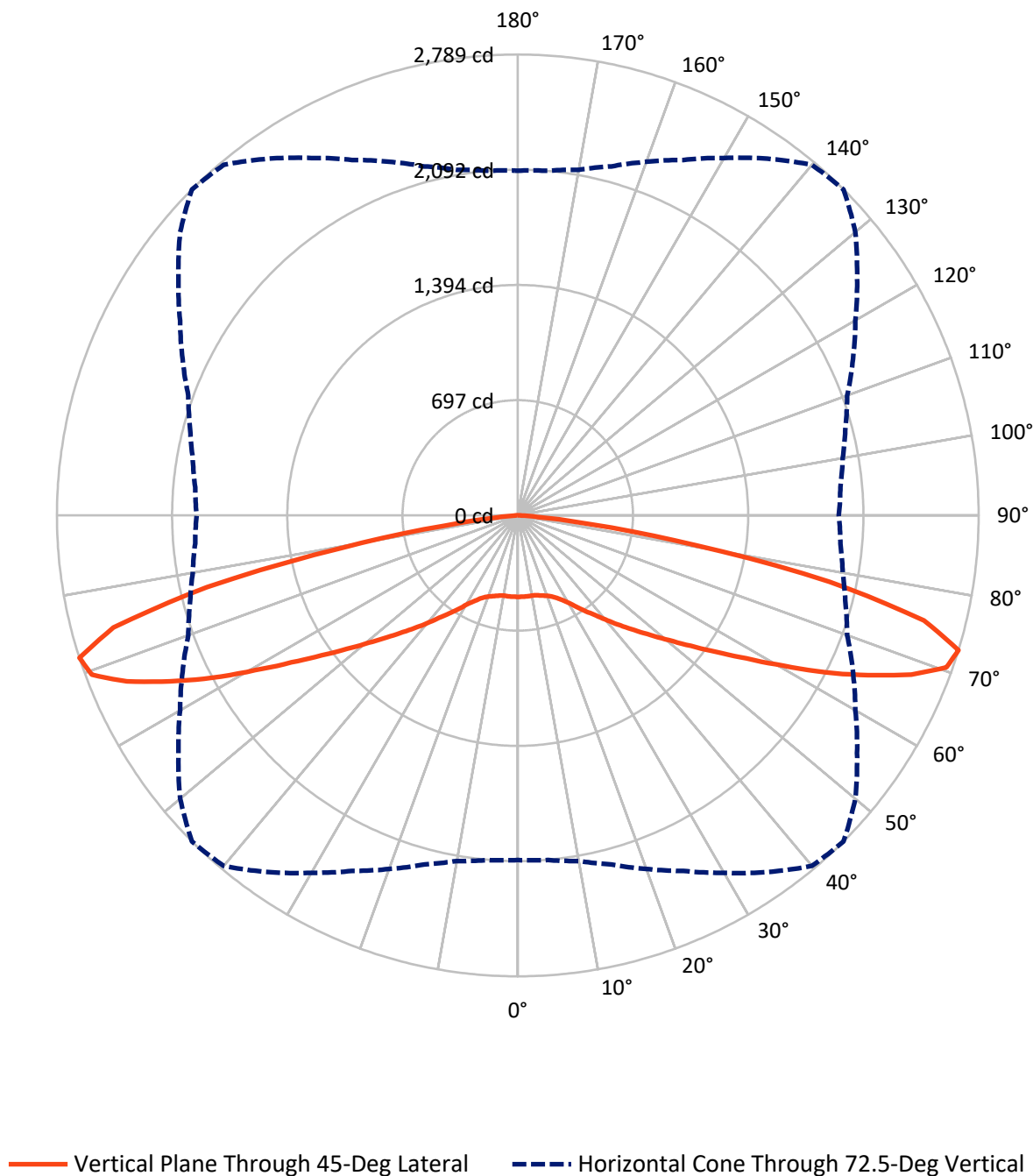
Based on 10 foot mounting height. Maximum calculated value = 4.9 fc

Type V - Short - Semi-Cutoff

REPORT NUMBER: P192639

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192639

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.1	0.0	3482.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3482.1	0.0	3482.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6964.2	0.0	6964.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	0.7
10°-20°	143.0	2.1
20°-30°	261.4	3.8
30°-40°	450.6	6.5
40°-50°	770.4	11.1
50°-60°	1248.7	17.9
60°-70°	2071.5	29.7
70°-80°	1824.5	26.2
80°-90°	147.1	2.1
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°	6964.2	100.0
0°-180°	6964.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192639

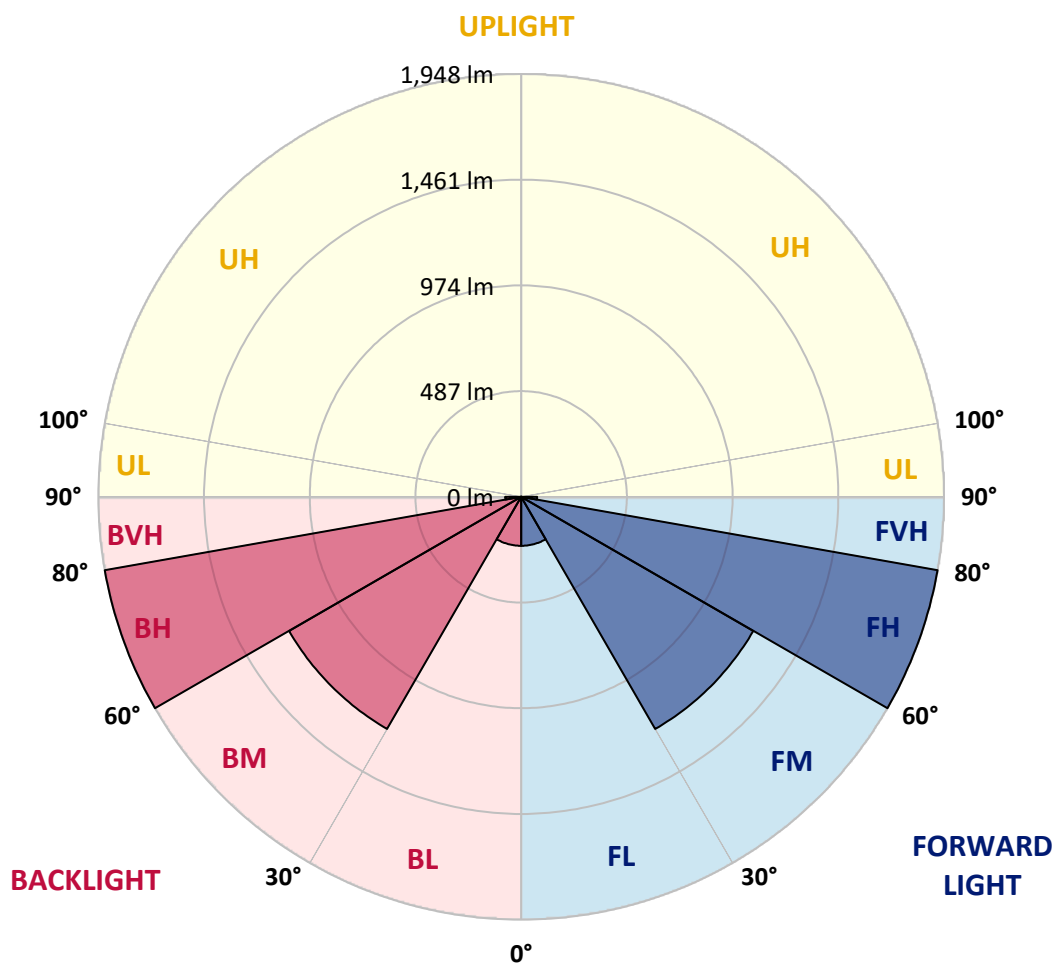
CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.7	3.2			
FM	(30°-60°)	1234.8	17.7			
FH	(60°-80°)	1948.0	28.0			G2/5000
FVH	(80°-90°)	73.5	1.1			G1/100
BL	(0°-30°)	225.7	3.2	B1/500		
BM	(30°-60°)	1234.8	17.7	B2/2500		
BH	(60°-80°)	1948.0	28.0	B3/2500		G2/5000
BVH	(80°-90°)	73.5	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P192639

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	493.2	493.6	493.9	493.6	493.6	493.2	492.9	493.2	492.9	492.2	492.5
5°	494.7	495.4	495.4	494.7	495.1	494.7	494.2	494.4	493.9	492.9	492.9
7.5°	496.7	497.0	497.0	496.4	496.7	496.0	495.4	495.1	494.4	493.2	492.2
10°	499.6	499.9	499.6	498.9	498.9	498.0	496.4	495.7	494.4	492.5	491.5
12.5°	502.7	503.0	502.7	502.1	501.8	500.2	498.9	498.0	497.0	495.4	493.9
15°	507.2	507.8	507.2	506.0	505.0	503.6	503.0	503.3	503.6	502.5	500.9
17.5°	515.4	515.8	514.9	512.0	510.8	509.4	509.4	510.1	511.0	510.5	508.8
20°	530.9	529.9	527.7	524.1	522.6	520.3	520.0	520.3	520.3	520.0	518.8
22.5°	550.0	549.3	546.6	542.0	539.8	538.5	536.6	535.1	534.8	533.7	532.4
25°	573.1	572.7	569.2	565.3	563.8	562.1	560.6	558.4	556.4	554.2	552.9
27.5°	602.4	601.2	596.0	594.2	591.8	590.9	588.7	586.1	584.5	581.7	580.0
30°	634.7	634.7	630.5	629.9	629.9	627.7	625.1	620.6	617.8	614.9	613.9
32.5°	666.9	667.2	663.1	664.4	665.4	666.9	667.6	665.9	664.1	663.8	661.8
35°	713.6	712.3	708.1	709.1	708.8	708.4	708.4	712.0	712.6	713.3	709.4
37.5°	771.4	771.4	767.2	767.2	765.4	763.4	760.9	763.0	766.6	767.5	765.1
40°	837.5	839.7	834.6	834.3	835.0	828.8	826.0	829.5	831.8	835.7	832.7
42.5°	915.5	913.9	908.7	908.1	904.5	902.7	900.1	903.0	906.6	909.0	910.0
45°	990.2	988.9	983.2	983.2	979.6	978.1	979.3	984.1	985.7	989.3	992.7
47.5°	1063.9	1062.3	1058.5	1060.2	1060.5	1063.3	1067.5	1072.0	1076.4	1081.2	1082.8
50°	1139.3	1139.7	1135.5	1139.3	1144.2	1152.1	1163.3	1170.6	1179.9	1186.0	1187.8
52.5°	1208.0	1209.3	1213.8	1222.7	1232.3	1248.0	1267.1	1285.0	1300.3	1310.6	1309.9
55°	1290.5	1292.3	1303.3	1318.5	1334.2	1357.9	1386.3	1417.8	1443.5	1458.1	1448.9
57.5°	1395.8	1399.9	1412.1	1432.9	1456.2	1486.9	1525.8	1573.5	1613.0	1632.9	1617.8
60°	1540.5	1543.1	1557.8	1580.8	1608.9	1646.9	1699.0	1762.8	1818.7	1845.0	1827.7
62.5°	1731.2	1736.0	1747.8	1771.1	1799.9	1842.9	1906.6	1986.5	2056.0	2092.5	2053.5
65°	1958.9	1974.4	1984.1	2007.8	2034.6	2080.3	2146.7	2232.3	2307.1	2331.0	2286.0
67.5°	2184.4	2197.9	2215.1	2242.3	2269.5	2320.8	2382.5	2465.6	2547.6	2569.3	2499.5
70°	2283.2	2290.8	2317.6	2354.7	2406.8	2467.5	2538.6	2631.9	2733.5	2751.3	2662.6
72.5°	2085.4	2093.1	2123.1	2186.1	2276.8	2373.2	2497.4	2634.5	2768.6	2788.9	2666.5
75°	1577.2	1564.8	1609.2	1692.5	1814.9	1949.4	2123.1	2319.6	2513.5	2538.6	2392.7
77.5°	815.2	813.6	847.1	950.5	1096.5	1249.5	1440.9	1662.8	1852.6	1929.3	1810.4
80°	229.7	232.1	248.2	299.6	384.9	495.4	644.8	852.9	1008.0	1087.2	1020.8
82.5°	90.0	97.1	103.1	112.7	123.9	140.2	187.2	278.5	373.6	446.6	365.7
85°	32.2	34.5	48.8	57.8	58.8	62.0	70.6	82.4	99.3	118.5	97.5
87.5°	12.1	13.4	15.7	25.9	25.5	23.3	28.4	29.7	22.4	20.4	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192639

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	491.8	492.2	492.2	492.5	492.9	492.9	493.6	493.6
5°	492.2	492.2	491.5	491.8	491.5	491.5	491.8	491.8
7.5°	491.5	491.2	490.6	490.2	489.7	489.7	489.7	489.7
10°	490.6	490.2	489.7	489.4	489.1	489.1	489.1	489.1
12.5°	493.2	492.2	491.5	491.2	491.2	491.2	491.2	491.2
15°	499.9	497.6	496.0	496.0	496.4	497.0	497.0	497.6
17.5°	508.2	505.7	504.0	502.7	503.3	504.3	505.0	505.7
20°	518.1	516.8	514.6	513.3	513.3	514.6	515.1	515.4
22.5°	531.9	530.9	529.9	528.3	528.3	529.0	530.2	530.2
25°	552.3	551.6	551.0	549.7	549.3	549.3	550.0	550.6
27.5°	577.8	578.1	577.6	577.2	576.3	575.9	576.9	576.6
30°	612.0	613.6	615.2	613.9	612.3	611.3	610.4	609.1
32.5°	658.3	656.4	655.1	652.9	650.0	647.5	645.5	643.3
35°	702.1	698.8	697.6	699.5	699.1	697.6	695.3	693.5
37.5°	755.7	755.1	755.7	759.3	758.6	760.2	755.7	755.4
40°	823.5	824.1	828.5	832.7	835.0	837.2	834.6	832.1
42.5°	902.1	901.7	903.2	909.0	912.9	915.5	910.0	909.4
45°	985.1	982.8	984.1	988.9	992.7	995.6	989.6	989.6
47.5°	1076.4	1072.6	1068.4	1073.9	1076.1	1078.1	1073.3	1071.7
50°	1178.4	1170.2	1161.4	1163.6	1163.6	1162.9	1156.9	1156.6
52.5°	1295.3	1280.5	1264.2	1258.1	1254.7	1250.8	1240.3	1235.1
55°	1429.6	1407.7	1382.1	1366.4	1358.1	1347.6	1330.0	1325.2
57.5°	1586.9	1552.3	1508.3	1489.1	1470.5	1453.3	1433.8	1428.4
60°	1773.1	1722.3	1663.8	1628.4	1608.2	1591.6	1571.4	1570.6
62.5°	1980.7	1900.4	1834.4	1802.4	1787.7	1773.1	1753.9	1756.5
65°	2191.8	2108.1	2046.2	2020.3	2006.5	1994.4	1975.3	1978.1
67.5°	2400.1	2323.1	2255.0	2228.6	2213.1	2197.9	2180.6	2183.5
70°	2549.6	2454.1	2377.4	2318.6	2281.9	2240.4	2213.5	2206.8
72.5°	2506.7	2359.5	2237.8	2121.3	2052.9	1997.3	1959.6	1943.2
75°	2169.5	1968.2	1811.7	1668.6	1588.1	1522.6	1475.0	1445.4
77.5°	1611.1	1385.0	1200.0	1035.2	904.8	817.4	755.7	715.7
80°	881.9	670.8	490.2	344.6	253.3	210.6	185.8	174.0
82.5°	274.7	177.3	130.7	112.7	104.8	100.3	93.0	81.2
85°	87.5	76.7	71.2	68.1	64.8	56.5	39.0	35.5
87.5°	33.9	34.9	34.5	32.6	33.3	23.9	19.1	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)