

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: P193399

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5754 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

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



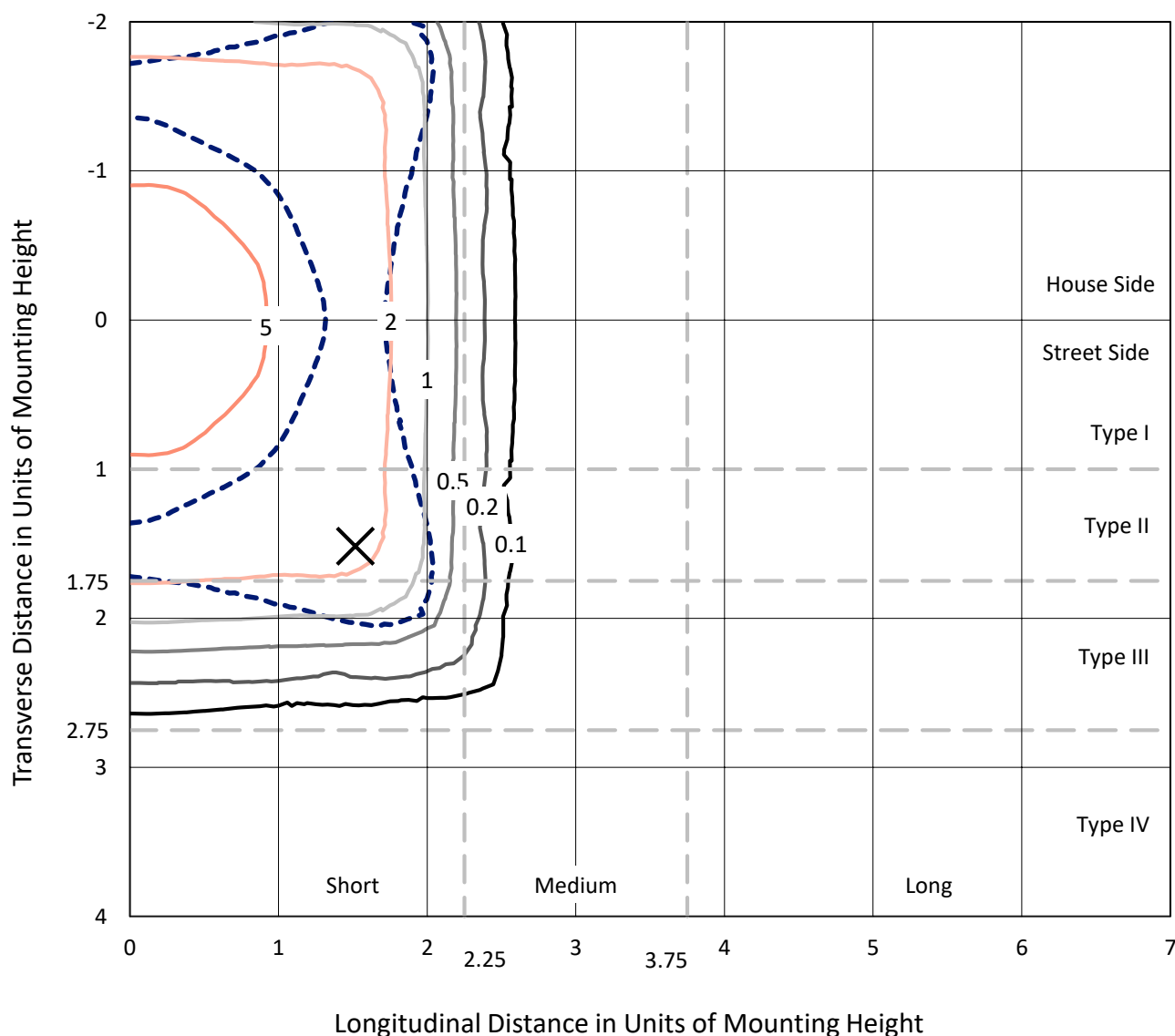
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

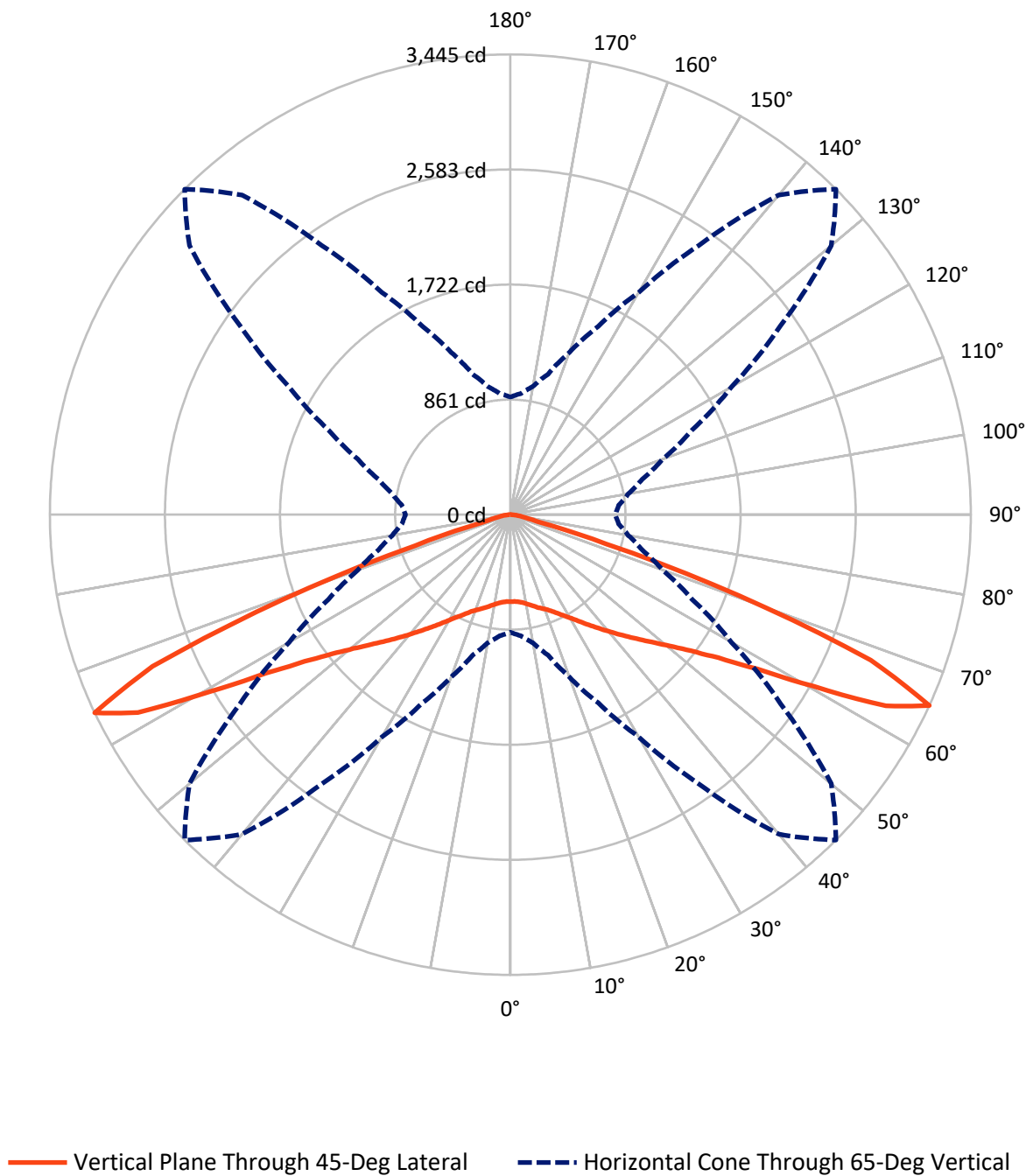


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2877.0	0.0	2877.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2877.0	0.0	2877.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5754.0	0.0	5754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.1
10°-20°	203.5	3.5
20°-30°	380.5	6.6
30°-40°	643.6	11.2
40°-50°	1052.4	18.3
50°-60°	1673.4	29.1
60°-70°	1512.7	26.3
70°-80°	191.4	3.3
80°-90°	32.9	0.6
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°	5754.0	100.0
0°-180°	5754.0	100.0

Coefficient of Utilization



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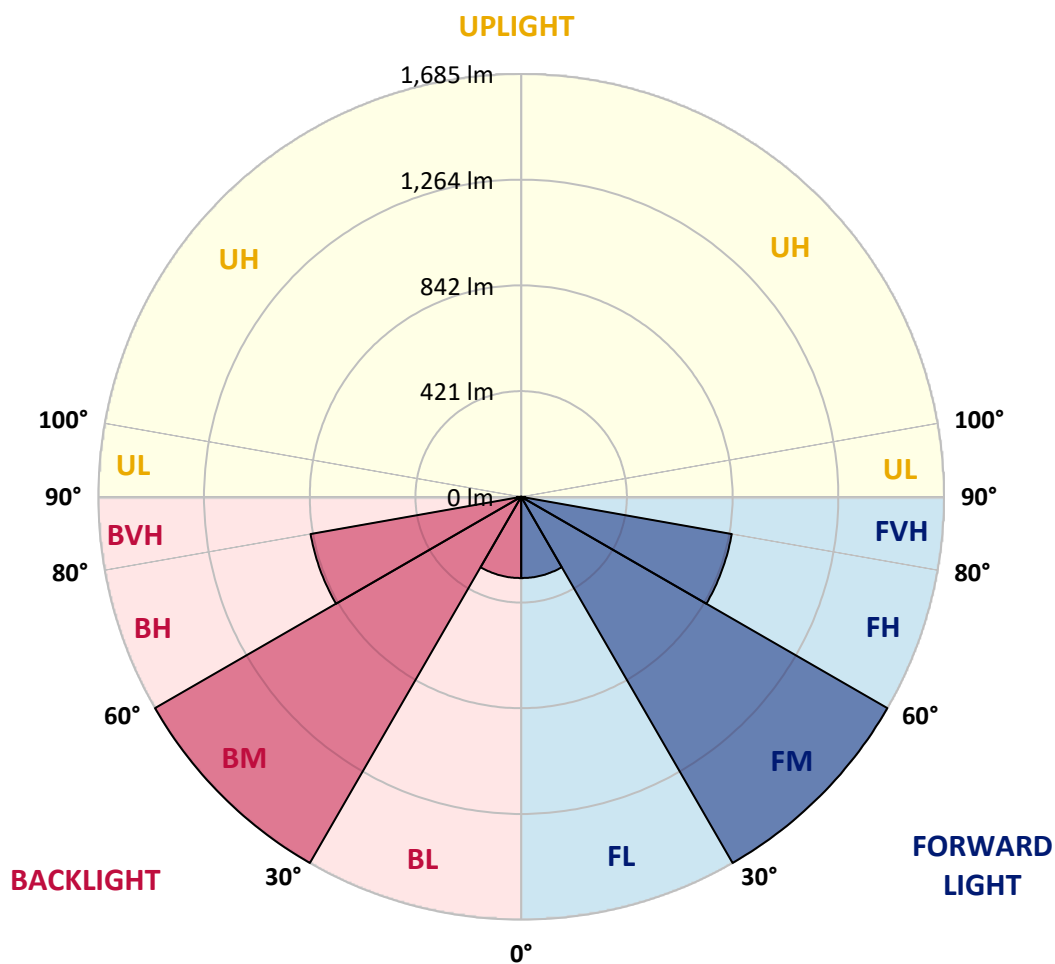
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.8	5.6			
FM	(30°-60°)	1684.7	29.3			
FH	(60°-80°)	852.1	14.8			G1/1800
FVH	(80°-90°)	16.5	0.3			G1/100
BL	(0°-30°)	323.8	5.6	B1/500		
BM	(30°-60°)	1684.7	29.3	B2/2500		
BH	(60°-80°)	852.1	14.8	B2/1000		G1/1800
BVH	(80°-90°)	16.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
2.5°	651.6	652.1	652.7	652.1	652.7	651.9	651.3	652.1	651.3	650.5	651.1
5°	657.3	657.5	657.5	656.7	657.5	657.0	656.2	657.3	656.5	655.6	656.2
7.5°	666.7	667.8	667.0	666.2	666.7	666.2	665.6	665.9	665.6	664.8	665.1
10°	679.4	680.2	679.6	679.4	679.9	679.6	679.1	678.8	679.1	678.3	678.3
12.5°	694.7	694.5	694.2	694.5	695.3	695.3	695.0	695.3	695.8	696.1	695.5
15°	709.8	710.4	710.4	710.4	712.0	713.3	714.1	714.7	715.7	716.0	714.9
17.5°	728.7	728.7	728.4	728.7	730.3	732.5	733.3	734.3	735.4	736.2	734.9
20°	749.7	750.2	750.2	750.8	752.9	755.4	755.4	755.9	755.4	755.9	755.1
22.5°	775.3	776.9	776.9	777.2	779.3	782.3	781.5	782.3	781.0	782.0	781.0
25°	808.7	811.1	810.6	810.6	812.2	814.1	814.4	816.0	815.7	817.1	816.3
27.5°	846.4	850.2	851.3	851.0	852.1	854.0	854.5	856.4	855.3	856.4	855.9
30°	891.7	893.3	895.5	896.3	897.6	899.5	899.5	899.8	898.5	900.1	900.9
32.5°	938.6	941.6	943.7	948.6	951.0	952.3	952.1	952.6	951.3	953.4	955.0
35°	1000.6	1002.7	1006.2	1010.0	1013.3	1013.0	1012.2	1012.4	1012.4	1014.3	1015.9
37.5°	1075.2	1075.8	1080.4	1085.7	1087.4	1085.7	1080.9	1079.8	1077.4	1079.8	1082.5
40°	1154.2	1156.1	1165.2	1168.7	1169.6	1166.6	1159.6	1155.5	1150.1	1153.1	1156.9
42.5°	1236.9	1240.7	1249.0	1255.2	1257.9	1256.1	1246.4	1240.2	1233.1	1234.8	1238.5
45°	1328.5	1333.1	1345.0	1350.9	1356.0	1353.1	1343.6	1334.2	1323.2	1324.0	1329.9
47.5°	1430.9	1435.5	1450.9	1460.9	1463.6	1463.0	1452.5	1439.6	1424.5	1423.9	1429.1
50°	1545.7	1550.3	1569.5	1584.8	1592.6	1591.8	1579.4	1561.1	1542.8	1543.1	1549.5
52.5°	1657.9	1663.5	1683.5	1709.9	1725.2	1736.3	1728.7	1711.5	1689.1	1689.7	1695.6
55°	1763.0	1772.4	1795.3	1831.1	1859.7	1890.7	1899.6	1899.0	1885.6	1889.3	1895.3
57.5°	1813.9	1827.9	1863.2	1919.8	1978.0	2041.1	2094.4	2134.3	2151.3	2176.9	2170.9
60°	1717.4	1739.8	1791.8	1875.1	1990.1	2121.6	2262.6	2400.3	2517.8	2606.4	2555.5
62.5°	1406.2	1435.3	1498.3	1605.0	1779.1	1989.6	2259.3	2584.9	2939.5	3153.5	3000.7
65°	879.9	910.0	974.2	1088.4	1292.2	1553.8	1919.8	2459.3	3121.9	3444.5	3133.5
67.5°	343.1	359.5	394.3	467.3	620.3	853.2	1220.5	1832.7	2625.3	2908.0	2576.5
70°	171.9	173.5	180.0	193.5	226.4	294.0	447.3	849.7	1505.6	1818.5	1451.4
72.5°	124.2	124.5	127.7	133.7	144.2	159.3	188.4	260.0	489.6	748.4	458.9
75°	95.1	96.2	98.1	101.3	107.0	114.5	125.0	149.8	185.7	215.3	181.1
77.5°	73.3	75.5	76.8	79.8	83.3	88.4	91.4	100.8	117.2	123.4	121.5
80°	55.8	57.7	60.6	63.1	65.5	67.9	66.8	71.1	79.8	84.9	82.2
82.5°	35.6	37.7	46.4	48.5	49.6	51.2	49.3	49.6	53.4	56.6	53.4
85°	22.9	24.3	29.4	32.1	32.3	33.4	32.6	30.7	30.7	28.0	31.5
87.5°	10.5	10.8	13.2	15.6	16.2	14.6	14.3	13.7	11.0	10.5	11.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
2.5°	650.8	651.3	651.6	652.4	652.7	652.7	653.0	653.5
5°	655.9	656.7	657.0	658.1	658.3	658.1	658.6	658.9
7.5°	665.1	666.4	667.0	668.0	667.2	668.3	668.6	668.6
10°	678.6	679.9	680.2	681.3	680.7	681.3	681.3	680.7
12.5°	696.3	696.6	695.8	696.6	695.5	696.1	695.3	694.7
15°	716.0	715.2	713.3	713.3	711.7	712.0	711.7	711.4
17.5°	735.1	733.5	732.2	731.6	730.3	730.0	729.2	729.2
20°	756.2	755.4	754.5	753.5	752.1	750.8	750.5	751.0
22.5°	781.5	781.2	781.2	780.7	778.8	777.5	776.6	776.6
25°	815.5	813.0	813.0	812.8	811.9	811.1	809.5	810.3
27.5°	853.7	852.4	853.4	853.2	852.4	852.4	851.3	851.3
30°	900.9	900.3	902.0	900.6	897.9	897.6	896.6	895.2
32.5°	955.3	954.8	957.2	955.6	951.3	948.8	946.7	945.6
35°	1015.9	1016.2	1019.2	1018.1	1013.3	1011.6	1007.9	1007.3
37.5°	1082.2	1086.6	1091.7	1092.7	1088.7	1087.6	1083.6	1081.4
40°	1160.1	1165.8	1173.6	1175.5	1171.2	1170.4	1164.7	1161.7
42.5°	1243.1	1252.8	1262.5	1264.1	1259.8	1255.5	1250.1	1248.0
45°	1335.8	1347.4	1360.1	1363.3	1356.8	1351.7	1344.7	1344.7
47.5°	1439.8	1454.4	1468.7	1477.6	1471.6	1466.3	1457.9	1452.5
50°	1562.7	1582.7	1601.3	1610.4	1601.0	1590.8	1576.2	1571.3
52.5°	1716.9	1738.4	1754.6	1749.7	1735.2	1720.9	1705.0	1698.5
55°	1913.6	1920.9	1920.9	1902.5	1873.4	1849.5	1824.4	1816.0
57.5°	2159.6	2131.6	2088.5	2033.8	1965.1	1905.2	1864.8	1845.7
60°	2448.8	2314.0	2161.8	2012.2	1889.3	1788.0	1727.9	1700.4
62.5°	2641.5	2289.0	1983.9	1743.8	1567.0	1445.0	1362.0	1329.6
65°	2468.7	1909.0	1500.5	1213.2	1020.5	896.3	814.1	783.9
67.5°	1808.2	1196.2	799.0	572.6	419.6	334.7	301.0	287.0
70°	811.7	421.2	258.2	201.6	173.8	159.5	153.3	151.2
72.5°	244.7	177.0	149.3	134.7	123.7	116.7	111.6	111.0
75°	147.7	122.9	109.1	100.5	93.5	87.9	85.2	84.3
77.5°	103.2	90.3	83.8	77.6	72.2	67.9	65.5	63.6
80°	72.5	66.3	63.3	59.8	56.3	52.3	48.8	47.2
82.5°	48.5	47.2	47.2	45.0	42.0	38.3	31.3	29.6
85°	31.3	31.0	31.5	30.7	28.6	24.5	20.2	19.1
87.5°	14.6	14.8	16.4	16.2	15.6	12.9	10.2	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)