

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: P298988

Luminaire Tested: **GAA-AF-03-LED-U-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298988
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: GAA-AF-03-LED-U-T2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11324.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

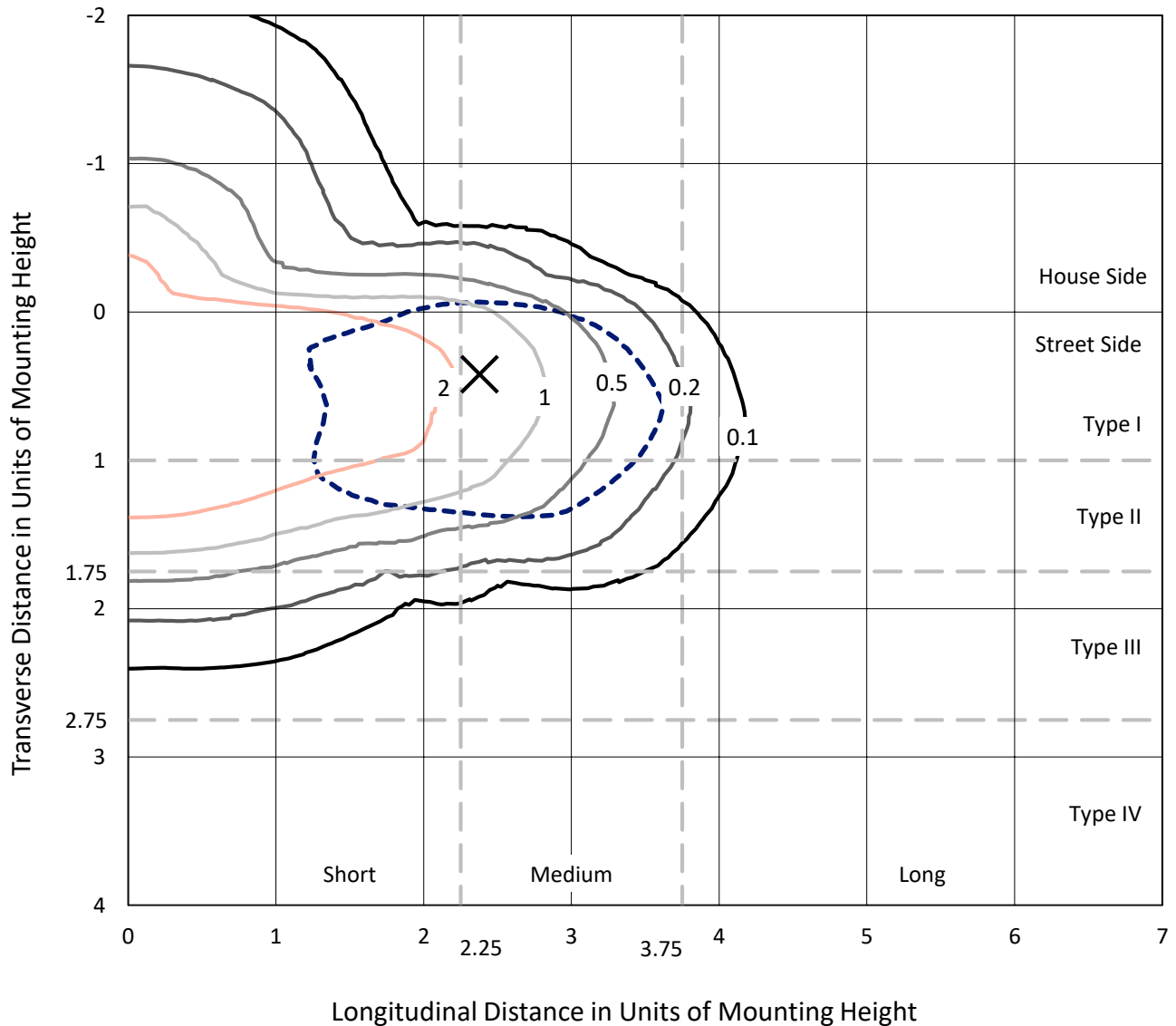
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

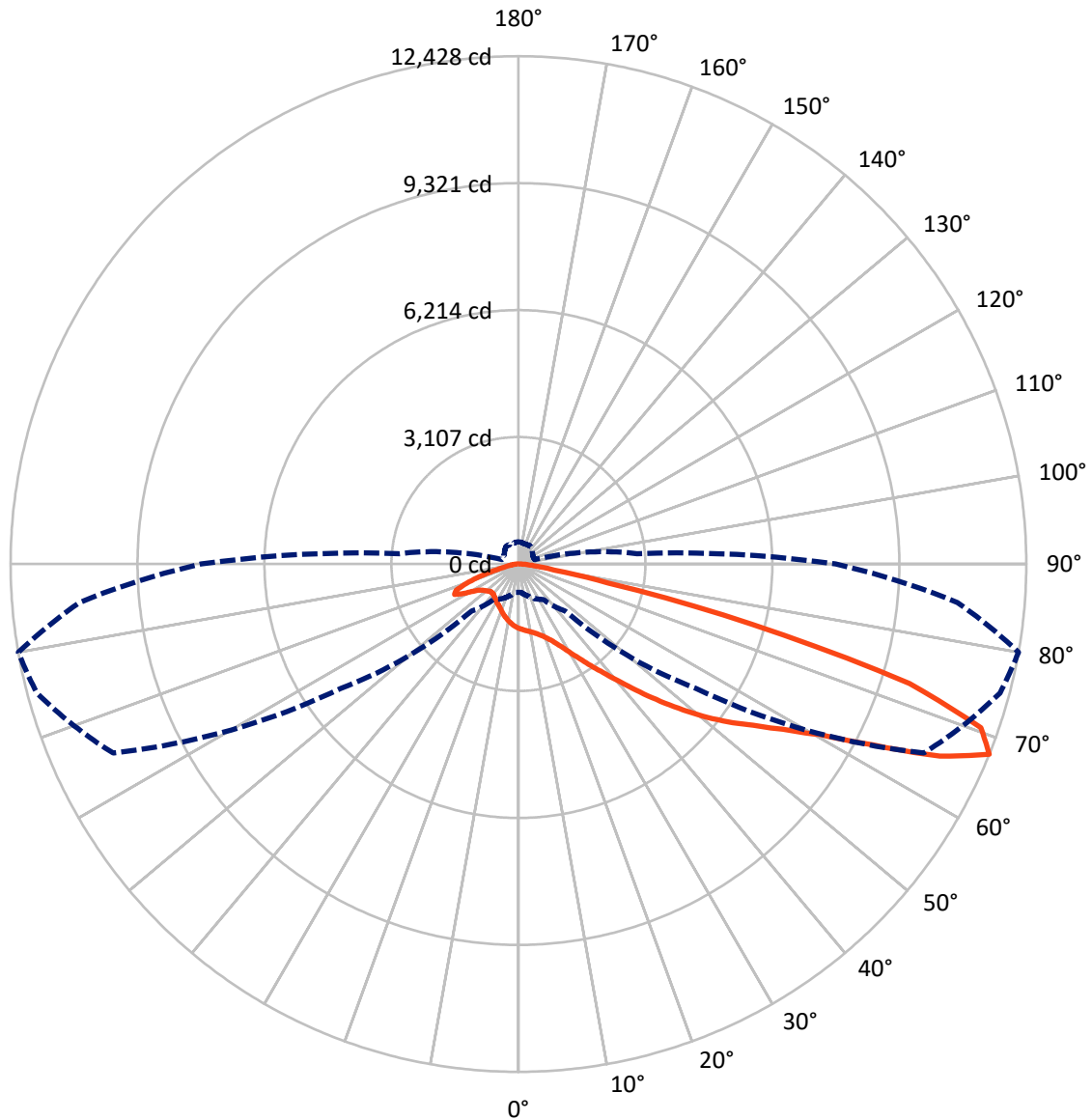
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2085.5	0.0	2085.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9238.8	0.0	9238.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	11324.3	0.0	11324.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.3
10°-20°	418.1	3.7
20°-30°	692.0	6.1
30°-40°	1131.9	10.0
40°-50°	1827.6	16.1
50°-60°	2638.5	23.3
60°-70°	2911.8	25.7
70°-80°	1342.2	11.9
80°-90°	217.1	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°	11324.3	100.0
0°-180°	11324.3	100.0



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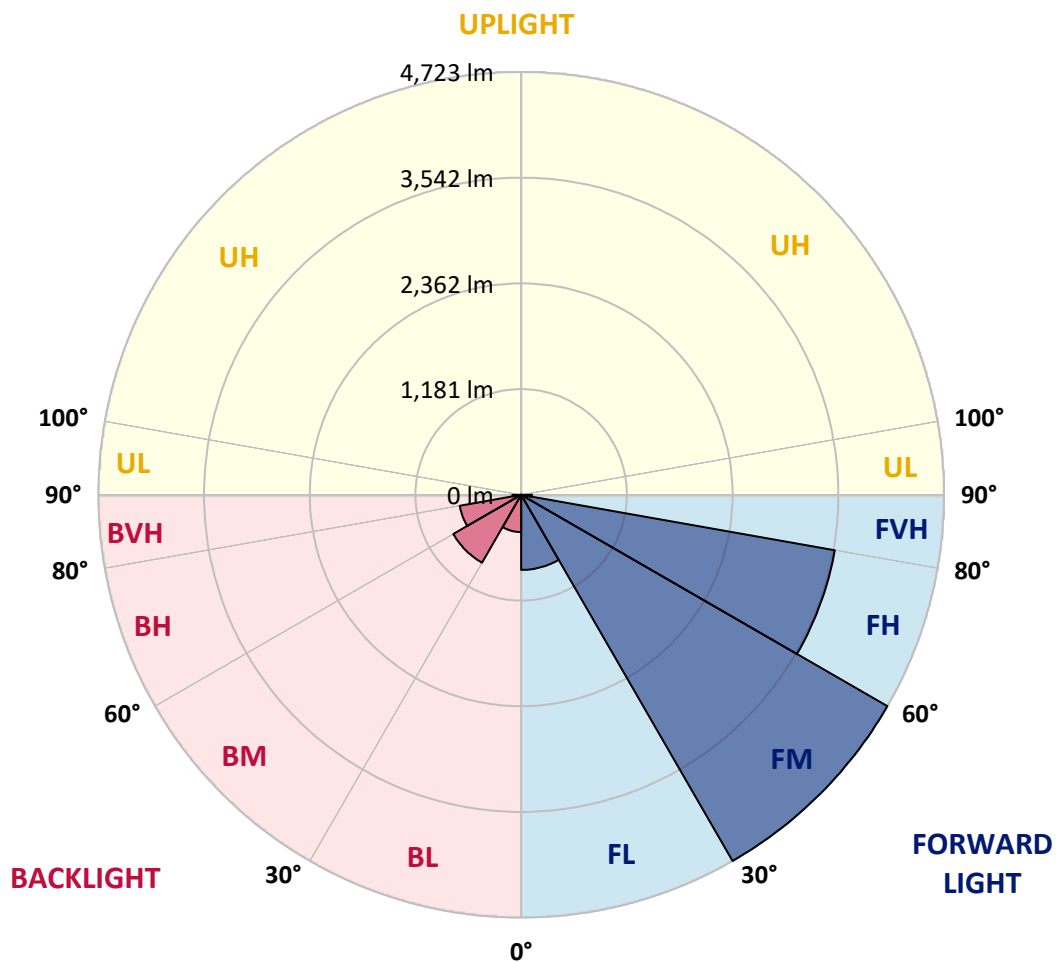
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.1	7.4			
FM (30°-60°)	4723.1	41.7			
FH (60°-80°)	3557.3	31.4			G2/5000
FVH (80°-90°)	119.3	1.1			G2/225
BL (0°-30°)	416.1	3.7	B1/500		
BM (30°-60°)	875.0	7.7	B1/1000		
BH (60°-80°)	696.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	97.7	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1721.0	1711.0	1712.6	1709.9	1701.5	1687.0	1671.4	1643.0	1613.4	1597.8	1585.5
5°	1864.8	1862.1	1858.2	1849.2	1828.0	1797.9	1760.6	1710.4	1656.3	1627.9	1600.6
7.5°	1972.4	1970.8	1965.8	1960.2	1939.6	1903.3	1847.0	1775.6	1697.0	1658.0	1615.6
10°	1981.4	1984.2	1988.1	2003.1	2005.9	1986.4	1929.0	1842.5	1739.4	1689.2	1635.2
12.5°	1905.5	1911.7	1926.7	1965.2	2005.9	2029.9	2000.3	1912.8	1789.0	1728.3	1659.7
15°	1805.2	1808.5	1826.9	1879.9	1952.9	2027.1	2055.0	1990.3	1853.1	1778.4	1696.5
17.5°	1762.3	1763.9	1776.8	1811.9	1879.9	1985.8	2085.6	2074.5	1931.7	1840.9	1741.6
20°	1740.5	1744.4	1762.8	1797.4	1840.3	1932.9	2090.1	2165.3	2025.4	1918.9	1798.5
22.5°	1802.4	1800.7	1807.4	1824.7	1860.9	1916.7	2086.7	2259.0	2144.7	2019.3	1872.6
25°	1946.8	1952.9	1941.2	1921.7	1933.4	1972.4	2104.6	2360.5	2294.1	2148.1	1969.7
27.5°	2152.5	2146.4	2129.1	2083.4	2059.4	2076.1	2163.7	2469.7	2479.8	2317.5	2097.9
30°	2357.7	2352.7	2335.9	2280.2	2231.1	2217.2	2278.5	2595.2	2701.1	2521.0	2255.1
32.5°	2570.6	2565.1	2549.5	2493.7	2434.6	2402.3	2441.9	2740.1	2962.0	2764.1	2440.2
35°	2833.2	2822.6	2789.7	2712.2	2654.3	2629.2	2647.6	2922.4	3263.1	3051.8	2664.9
37.5°	3080.2	3096.4	3062.9	2955.9	2880.6	2871.7	2892.3	3144.9	3587.5	3373.4	2923.0
40°	3328.3	3331.1	3301.0	3213.4	3135.9	3121.5	3173.3	3414.7	3970.5	3758.1	3236.9
42.5°	3584.7	3590.3	3539.6	3458.7	3401.9	3404.7	3463.8	3730.8	4409.8	4211.4	3598.1
45°	3888.6	3896.9	3841.2	3735.3	3683.4	3787.7	3763.1	4085.4	4891.5	4726.5	4012.9
47.5°	4206.4	4219.2	4176.8	4077.6	4012.9	4156.2	4062.5	4478.4	5410.0	5279.0	4468.4
50°	4379.7	4398.1	4439.4	4432.1	4418.2	4394.2	4396.5	4899.9	5944.6	5854.3	4936.7
52.5°	4286.6	4286.1	4436.6	4619.5	4814.6	4829.1	4803.4	5344.2	6444.2	6416.9	5377.7
55°	3860.7	3889.7	4117.7	4471.7	5004.7	5337.5	5413.3	5853.2	6934.8	6966.5	5825.3
57.5°	3151.6	3175.5	3483.3	3976.7	4748.2	5639.7	6280.8	6593.0	7483.4	7631.6	6421.3
60°	2137.5	2166.5	2492.6	3085.2	4058.1	5471.3	7106.5	7913.2	8140.1	8477.4	7257.6
62.5°	1256.1	1282.3	1548.2	1946.2	2857.2	4689.2	7468.9	9791.4	9183.2	9753.5	8533.1
65°	864.7	882.5	1011.9	1211.5	1641.8	3158.3	7019.5	11088.2	10788.2	11334.6	10012.2
67.5°	695.8	693.5	796.1	932.1	1057.0	1628.5	5308.0	10941.5	12199.8	12427.8	10779.9
70°	573.1	570.9	640.6	753.2	844.6	917.1	2891.2	9233.4	11912.1	12004.7	10072.9
72.5°	479.5	481.7	526.3	609.9	693.0	690.7	1270.5	6495.5	9371.1	10011.1	8029.7
75°	404.7	405.9	435.4	494.5	562.5	556.4	689.1	3519.0	5447.4	5892.8	4451.1
77.5°	344.5	345.7	364.6	397.5	446.0	443.8	502.9	1520.3	2272.4	2244.5	1522.5
80°	307.2	307.2	316.1	322.2	349.0	339.0	373.0	730.3	960.6	887.0	607.7
82.5°	240.8	242.0	296.6	294.4	274.8	262.0	262.0	430.4	509.0	470.5	355.7
85°	135.5	134.9	191.2	230.8	242.0	184.5	182.9	240.8	277.1	244.2	172.3
87.5°	58.0	59.1	88.6	102.6	137.1	114.8	113.2	124.3	141.0	122.1	79.7
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°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1573.8	1559.3	1527.6	1488.0	1452.3	1428.9	1407.7	1377.0	1378.7	1357.5	1341.9
5°	1572.7	1542.6	1469.0	1381.5	1297.3	1236.5	1190.8	1149.6	1139.5	1120.0	1108.3
7.5°	1573.8	1524.8	1401.0	1261.1	1156.8	1079.9	1040.9	1019.1	1014.1	1007.4	1008.0
10°	1577.7	1508.6	1326.3	1148.5	1039.2	988.5	979.0	985.7	993.5	995.7	996.3
12.5°	1586.7	1494.1	1244.3	1048.1	965.6	950.0	966.2	989.0	1004.1	1011.3	1010.8
15°	1606.7	1483.0	1165.7	969.5	924.9	933.3	963.4	995.7	1017.4	1027.5	1028.0
17.5°	1628.5	1466.8	1084.9	909.3	894.8	916.0	953.3	991.2	1018.0	1029.1	1031.4
20°	1656.9	1446.7	1000.2	864.1	866.4	890.3	925.5	963.4	992.9	1002.4	1006.8
22.5°	1694.2	1425.0	926.0	827.3	834.0	852.4	879.7	912.6	938.3	942.7	946.6
25°	1744.4	1401.6	866.9	793.9	796.7	807.3	825.7	845.2	863.0	858.0	861.9
27.5°	1811.9	1381.5	822.9	763.2	758.2	760.4	769.9	776.0	785.5	771.6	773.3
30°	1891.0	1359.7	788.9	736.5	722.5	718.6	720.9	724.2	731.4	712.5	709.7
32.5°	1983.0	1333.5	757.1	713.0	693.5	685.7	686.8	695.8	723.6	711.9	705.8
35°	2090.1	1304.0	723.6	687.4	674.0	662.9	661.8	689.6	772.7	765.5	759.9
37.5°	2215.5	1274.5	690.2	658.4	659.5	647.3	643.4	675.1	782.2	753.7	749.8
40°	2375.0	1258.8	661.8	627.7	641.7	640.0	632.2	648.4	719.7	667.9	661.2
42.5°	2572.3	1261.1	640.6	594.9	620.5	638.3	626.1	626.6	652.3	613.3	607.1
45°	2815.9	1287.3	625.5	568.7	596.5	636.7	623.8	614.9	617.2	596.5	593.2
47.5°	3100.3	1341.4	614.9	546.9	573.7	630.5	623.3	611.6	606.6	595.4	592.6
50°	3416.4	1420.0	607.1	526.3	553.0	620.5	623.8	608.2	602.7	598.2	596.5
52.5°	3726.9	1509.7	595.4	508.4	536.9	608.2	625.5	604.9	598.8	595.4	593.7
55°	4073.1	1621.8	577.6	493.4	523.5	592.6	625.5	599.9	593.2	593.7	593.2
57.5°	4540.9	1803.0	556.4	480.6	507.3	573.7	614.9	594.3	585.9	586.5	587.0
60°	5271.7	2122.4	530.7	467.7	487.3	551.4	600.4	582.0	573.7	575.9	576.5
62.5°	6346.6	2591.3	497.3	448.8	466.1	527.4	580.4	566.4	558.1	563.6	563.6
65°	7463.8	3004.9	456.0	424.8	443.8	501.2	555.3	546.9	538.5	551.4	550.8
67.5°	7764.3	2912.4	414.8	398.6	421.5	472.2	525.2	520.7	516.2	538.5	537.4
70°	6897.4	2338.2	376.9	371.9	396.9	441.0	492.8	492.8	490.0	506.8	502.9
72.5°	5255.0	1658.0	340.6	343.4	369.1	407.0	457.7	461.6	457.2	465.5	462.2
75°	2813.2	948.9	304.4	312.2	334.5	372.4	418.7	422.6	419.8	419.2	420.9
77.5°	934.9	463.8	266.5	278.8	298.3	336.7	378.0	384.1	377.4	376.3	375.8
80°	416.5	291.6	224.7	240.8	258.1	296.0	335.1	340.1	332.8	342.9	330.0
82.5°	267.6	191.8	180.1	197.9	214.6	255.3	292.1	293.2	286.6	332.8	283.8
85°	129.9	118.7	135.5	151.6	166.1	200.7	242.0	242.5	225.8	205.7	198.5
87.5°	64.7	69.1	90.3	104.8	112.1	137.7	176.2	172.8	165.6	150.5	138.8
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)