

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: P298922

Luminaire Tested: **GAA-AF-02-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298922
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-02-LED-U-T2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9307 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

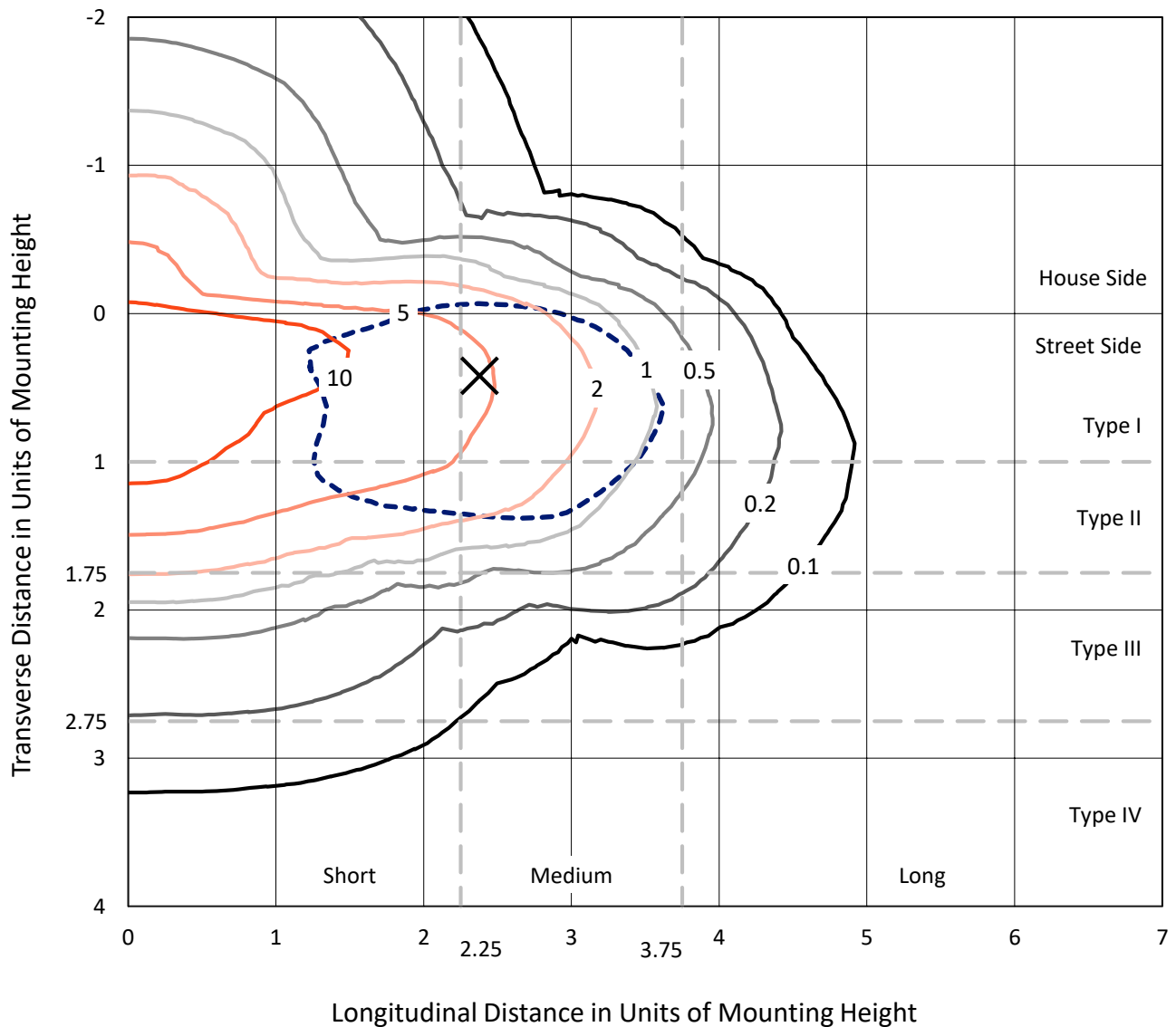
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

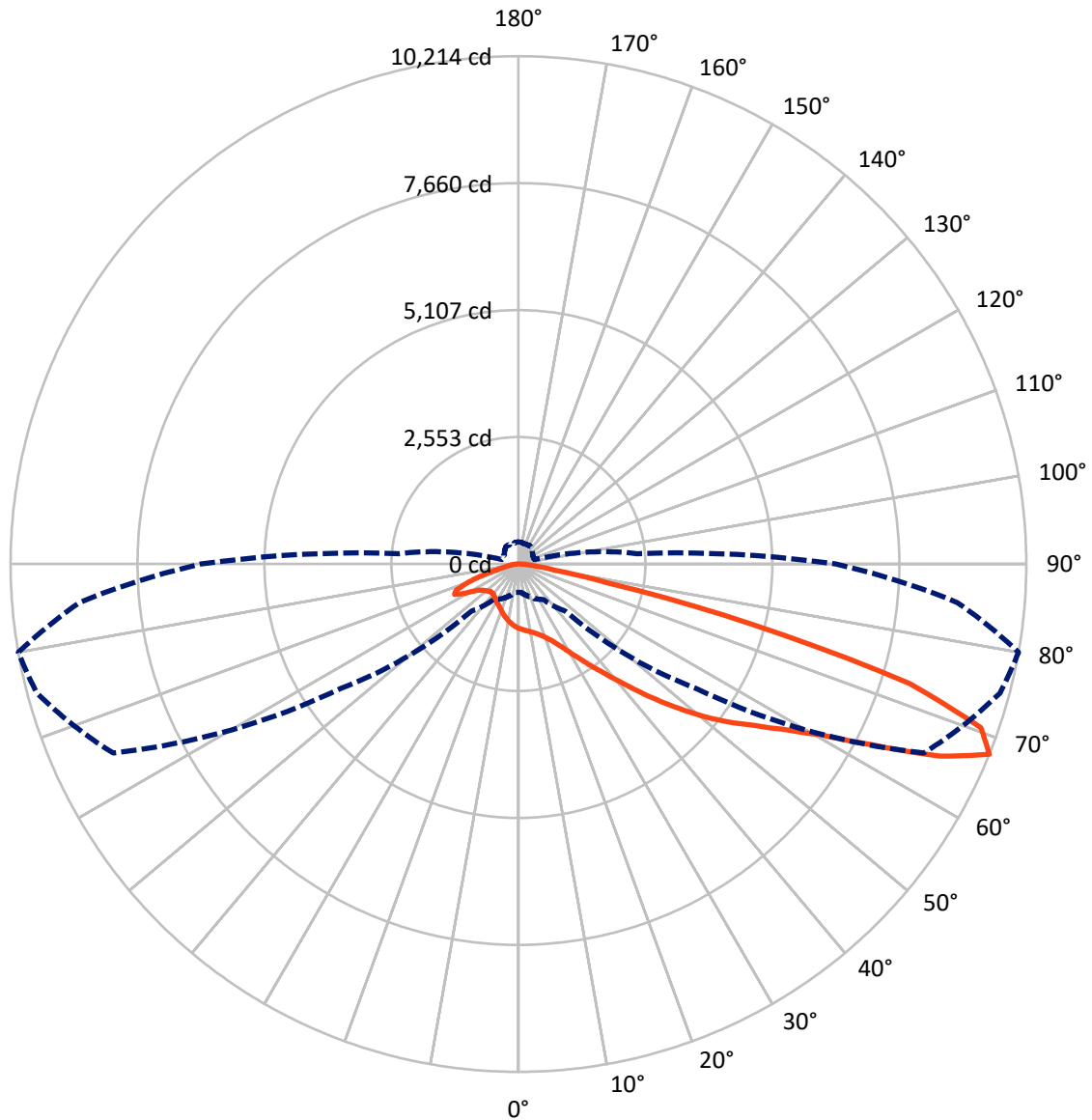
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 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	1714.0	0.0	1714.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	7593.0	0.0	7593.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	9307.0	0.0	9307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.3
10°-20°	343.6	3.7
20°-30°	568.7	6.1
30°-40°	930.3	10.0
40°-50°	1502.0	16.1
50°-60°	2168.5	23.3
60°-70°	2393.1	25.7
70°-80°	1103.1	11.9
80°-90°	178.4	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°	9307.0	100.0
0°-180°	9307.0	100.0



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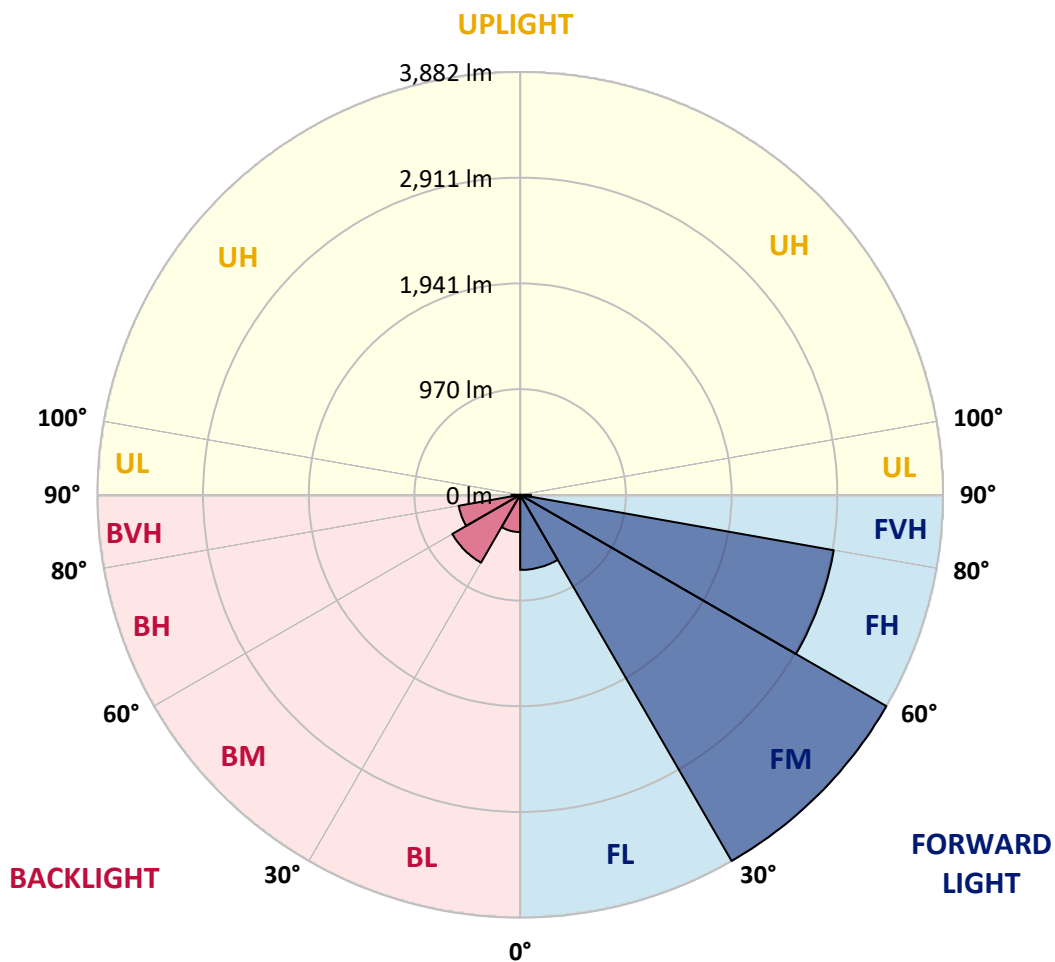
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.6	7.4			
FM (30°-60°)	3881.7	41.7			
FH (60°-80°)	2923.6	31.4			G2/5000
FVH (80°-90°)	98.1	1.1			G1/100
BL (0°-30°)	342.0	3.7	B1/500		
BM (30°-60°)	719.1	7.7	B1/1000		
BH (60°-80°)	572.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	80.3	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°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1414.4	1406.2	1407.6	1405.3	1398.4	1386.5	1373.6	1350.3	1326.0	1313.2	1303.1
5°	1532.6	1530.3	1527.1	1519.8	1502.4	1477.7	1447.0	1405.7	1361.3	1337.9	1315.5
7.5°	1621.1	1619.7	1615.6	1611.0	1594.0	1564.3	1518.0	1459.3	1394.7	1362.7	1327.8
10°	1628.4	1630.7	1633.9	1646.3	1648.6	1632.5	1585.3	1514.3	1429.5	1388.3	1343.9
12.5°	1566.1	1571.1	1583.5	1615.1	1648.6	1668.3	1644.0	1572.0	1470.3	1420.4	1364.0
15°	1483.6	1486.4	1501.5	1545.0	1605.0	1666.0	1688.9	1635.7	1523.0	1461.6	1394.3
17.5°	1448.3	1449.7	1460.2	1489.1	1545.0	1632.1	1714.1	1704.9	1587.6	1512.9	1431.4
20°	1430.5	1433.7	1448.8	1477.2	1512.5	1588.5	1717.7	1779.6	1664.6	1577.1	1478.1
22.5°	1481.3	1479.9	1485.4	1499.7	1529.4	1575.3	1715.0	1856.6	1762.7	1659.6	1539.1
25°	1600.0	1605.0	1595.4	1579.4	1589.0	1621.1	1729.7	1940.0	1885.4	1765.4	1618.8
27.5°	1769.1	1764.0	1749.8	1712.2	1692.5	1706.3	1778.2	2029.8	2038.0	1904.7	1724.2
30°	1937.7	1933.6	1919.8	1874.0	1833.7	1822.2	1872.6	2132.9	2219.9	2071.9	1853.4
32.5°	2112.7	2108.1	2095.3	2049.5	2000.9	1974.3	2006.9	2252.0	2434.4	2271.7	2005.5
35°	2328.5	2319.8	2292.8	2229.1	2181.4	2160.8	2175.9	2401.8	2681.8	2508.1	2190.1
37.5°	2531.5	2544.8	2517.3	2429.3	2367.5	2360.1	2377.1	2584.6	2948.4	2772.5	2402.3
40°	2735.4	2737.7	2712.9	2641.0	2577.3	2565.4	2608.0	2806.4	3263.2	3088.6	2660.2
42.5°	2946.2	2950.7	2909.0	2842.6	2795.9	2798.2	2846.7	3066.2	3624.3	3461.2	2957.1
45°	3195.9	3202.7	3156.9	3069.9	3027.3	3112.9	3092.8	3357.6	4020.1	3884.5	3298.0
47.5°	3457.0	3467.6	3432.7	3351.2	3298.0	3415.8	3338.8	3680.6	4446.3	4338.6	3672.4
50°	3599.5	3614.6	3648.6	3642.6	3631.1	3611.4	3613.3	4027.0	4885.7	4811.4	4057.3
52.5°	3523.0	3522.6	3646.3	3796.5	3956.9	3968.8	3947.8	4392.2	5296.2	5273.7	4419.7
55°	3173.0	3196.8	3384.2	3675.1	4113.2	4386.7	4449.0	4810.5	5699.4	5725.5	4787.6
57.5°	2590.1	2609.8	2862.8	3268.3	3902.4	4635.0	5161.9	5418.5	6150.3	6272.1	5277.4
60°	1756.7	1780.5	2048.6	2535.6	3335.2	4496.7	5840.5	6503.5	6690.0	6967.2	5964.7
62.5°	1032.3	1053.8	1272.4	1599.5	2348.2	3853.8	6138.3	8047.2	7547.3	8016.0	7013.0
65°	710.7	725.3	831.6	995.6	1349.4	2595.6	5769.0	9112.9	8866.4	9315.4	8228.6
67.5°	571.8	570.0	654.3	766.1	868.7	1338.4	4362.4	8992.4	10026.5	10213.9	8859.5
70°	471.0	469.2	526.5	619.0	694.2	753.7	2376.2	7588.5	9790.1	9866.2	8278.5
72.5°	394.0	395.9	432.5	501.3	569.5	567.7	1044.2	5338.4	7701.7	8227.7	6599.3
75°	332.6	333.6	357.8	406.4	462.3	457.3	566.3	2892.1	4477.0	4843.1	3658.2
77.5°	283.2	284.1	299.7	326.7	366.6	364.7	413.3	1249.5	1867.6	1844.7	1251.3
80°	252.5	252.5	259.8	264.8	286.8	278.6	306.5	600.2	789.5	729.0	499.4
82.5°	197.9	198.9	243.8	241.9	225.9	215.3	215.3	353.7	418.3	386.7	292.3
85°	111.3	110.9	157.2	189.7	198.9	151.7	150.3	197.9	227.7	200.7	141.6
87.5°	47.7	48.6	72.9	84.3	112.7	94.4	93.0	102.2	115.9	100.3	65.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1293.5	1281.6	1255.4	1222.9	1193.6	1174.3	1156.9	1131.7	1133.1	1115.7	1102.9
5°	1292.5	1267.8	1207.3	1135.4	1066.2	1016.3	978.7	944.8	936.5	920.5	910.9
7.5°	1293.5	1253.1	1151.4	1036.4	950.7	887.5	855.4	837.6	833.4	827.9	828.4
10°	1296.7	1239.9	1090.0	943.9	854.1	812.4	804.6	810.1	816.5	818.3	818.8
12.5°	1304.0	1227.9	1022.7	861.4	793.6	780.8	794.0	812.8	825.2	831.2	830.7
15°	1320.5	1218.8	958.1	796.8	760.1	767.0	791.7	818.3	836.2	844.4	844.9
17.5°	1338.4	1205.5	891.6	747.3	735.4	752.8	783.5	814.7	836.7	845.8	847.6
20°	1361.7	1189.0	822.0	710.2	712.0	731.7	760.6	791.7	816.0	823.8	827.5
22.5°	1392.4	1171.1	761.1	680.0	685.4	700.6	723.0	750.1	771.1	774.8	778.0
25°	1433.7	1151.9	712.5	652.5	654.8	663.5	678.6	694.6	709.3	705.2	708.4
27.5°	1489.1	1135.4	676.3	627.3	623.1	625.0	632.8	637.8	645.6	634.1	635.5
30°	1554.2	1117.5	648.3	605.3	593.8	590.6	592.4	595.2	601.1	585.6	583.3
32.5°	1629.8	1096.0	622.2	586.0	570.0	563.6	564.5	571.8	594.7	585.1	580.1
35°	1717.7	1071.7	594.7	564.9	553.9	544.8	543.9	566.8	635.0	629.1	624.5
37.5°	1820.8	1047.4	567.2	541.1	542.0	532.0	528.7	554.9	642.8	619.5	616.3
40°	1951.9	1034.6	543.9	515.9	527.4	526.0	519.6	532.9	591.5	548.9	543.4
42.5°	2114.1	1036.4	526.5	488.9	510.0	524.6	514.5	515.0	536.1	504.0	499.0
45°	2314.3	1058.0	514.1	467.4	490.3	523.3	512.7	505.4	507.2	490.3	487.5
47.5°	2548.0	1102.4	505.4	449.5	471.5	518.2	512.3	502.6	498.5	489.3	487.1
50°	2807.8	1167.0	499.0	432.5	454.5	510.0	512.7	499.9	495.3	491.6	490.3
52.5°	3063.0	1240.8	489.3	417.9	441.2	499.9	514.1	497.1	492.1	489.3	488.0
55°	3347.5	1332.9	474.7	405.5	430.2	487.1	514.1	493.0	487.5	488.0	487.5
57.5°	3731.9	1481.8	457.3	395.0	417.0	471.5	505.4	488.4	481.6	482.0	482.5
60°	4332.6	1744.3	436.2	384.4	400.5	453.1	493.5	478.3	471.5	473.3	473.8
62.5°	5216.0	2129.7	408.7	368.8	383.0	433.4	477.0	465.5	458.6	463.2	463.2
65°	6134.2	2469.6	374.8	349.1	364.7	411.9	456.4	449.5	442.6	453.1	452.7
67.5°	6381.2	2393.6	340.9	327.6	346.4	388.1	431.6	427.9	424.3	442.6	441.7
70°	5668.7	1921.6	309.7	305.6	326.2	362.4	405.0	405.0	402.7	416.5	413.3
72.5°	4318.9	1362.7	280.0	282.2	303.3	334.5	376.2	379.4	375.7	382.6	379.8
75°	2312.0	779.8	250.2	256.6	274.9	306.1	344.1	347.3	345.0	344.6	345.9
77.5°	768.4	381.2	219.0	229.1	245.1	276.7	310.7	315.7	310.2	309.3	308.8
80°	342.3	239.6	184.6	197.9	212.1	243.3	275.4	279.5	273.5	281.8	271.2
82.5°	219.9	157.6	148.0	162.7	176.4	209.9	240.1	241.0	235.5	273.5	233.2
85°	106.8	97.6	111.3	124.6	136.5	164.9	198.9	199.3	185.6	169.1	163.1
87.5°	53.1	56.8	74.2	86.1	92.1	113.2	144.8	142.0	136.1	123.7	114.1
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)