

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: P193100

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193100
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: GAN-AF-02-LED-U-T2-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9338.4 lumens
Efficiency: N/A
Efficacy: 109.9 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

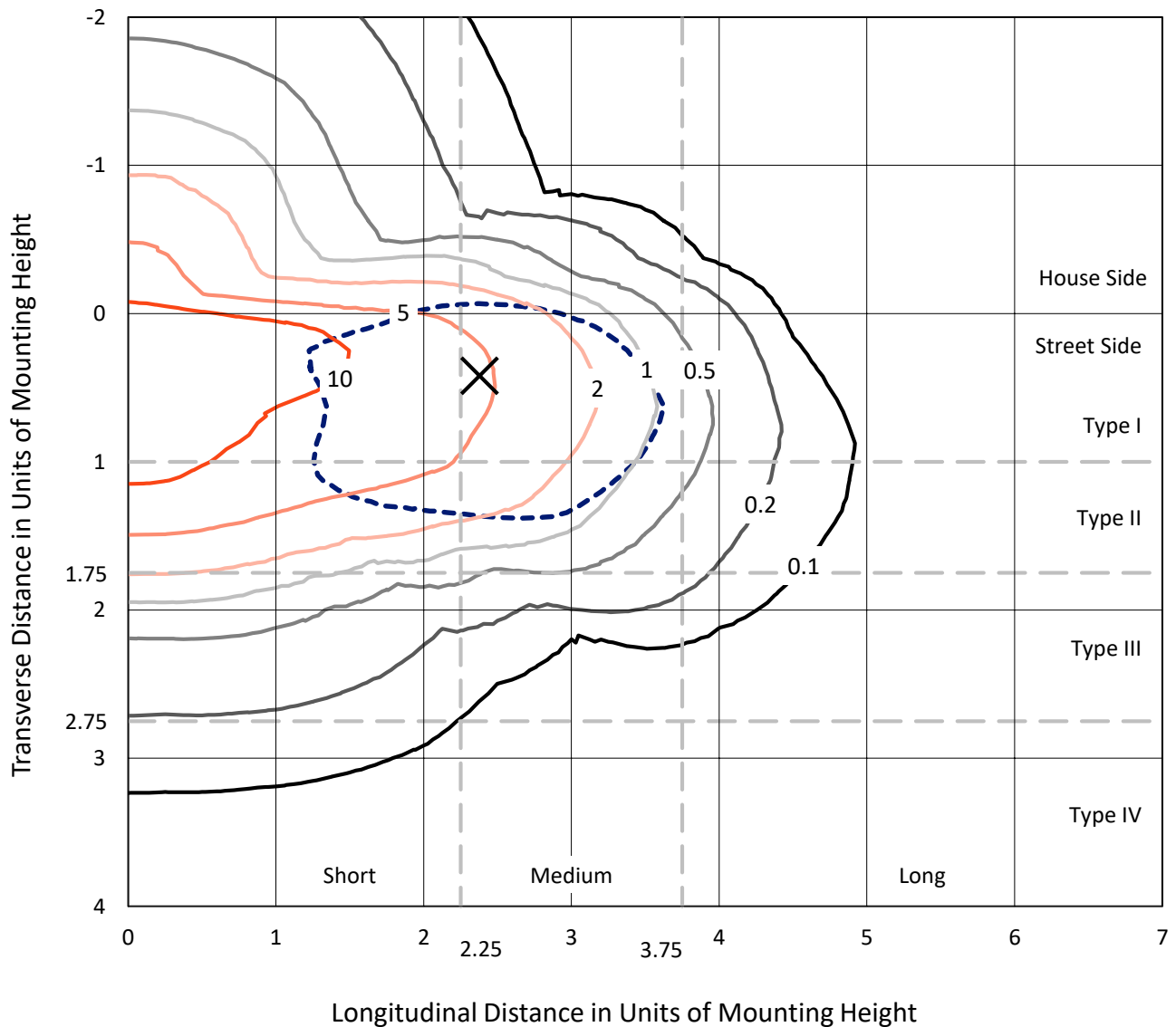
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

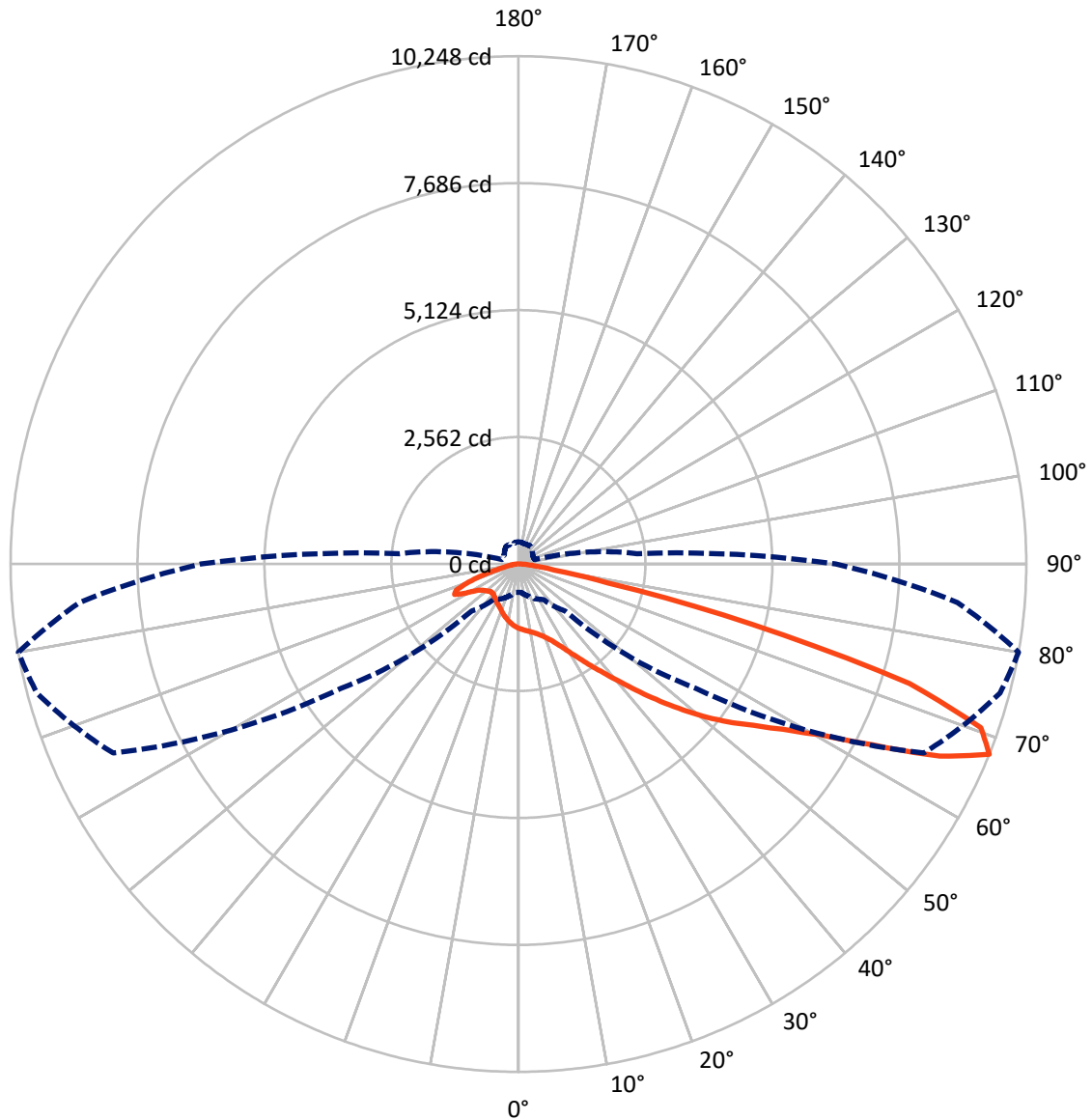
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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	1719.8	0.0	1719.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	7618.6	0.0	7618.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	9338.4	0.0	9338.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.3
10°-20°	344.8	3.7
20°-30°	570.6	6.1
30°-40°	933.4	10.0
40°-50°	1507.1	16.1
50°-60°	2175.8	23.3
60°-70°	2401.2	25.7
70°-80°	1106.8	11.9
80°-90°	179.0	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°	9338.4	100.0
0°-180°	9338.4	100.0

Coefficient of Utilization



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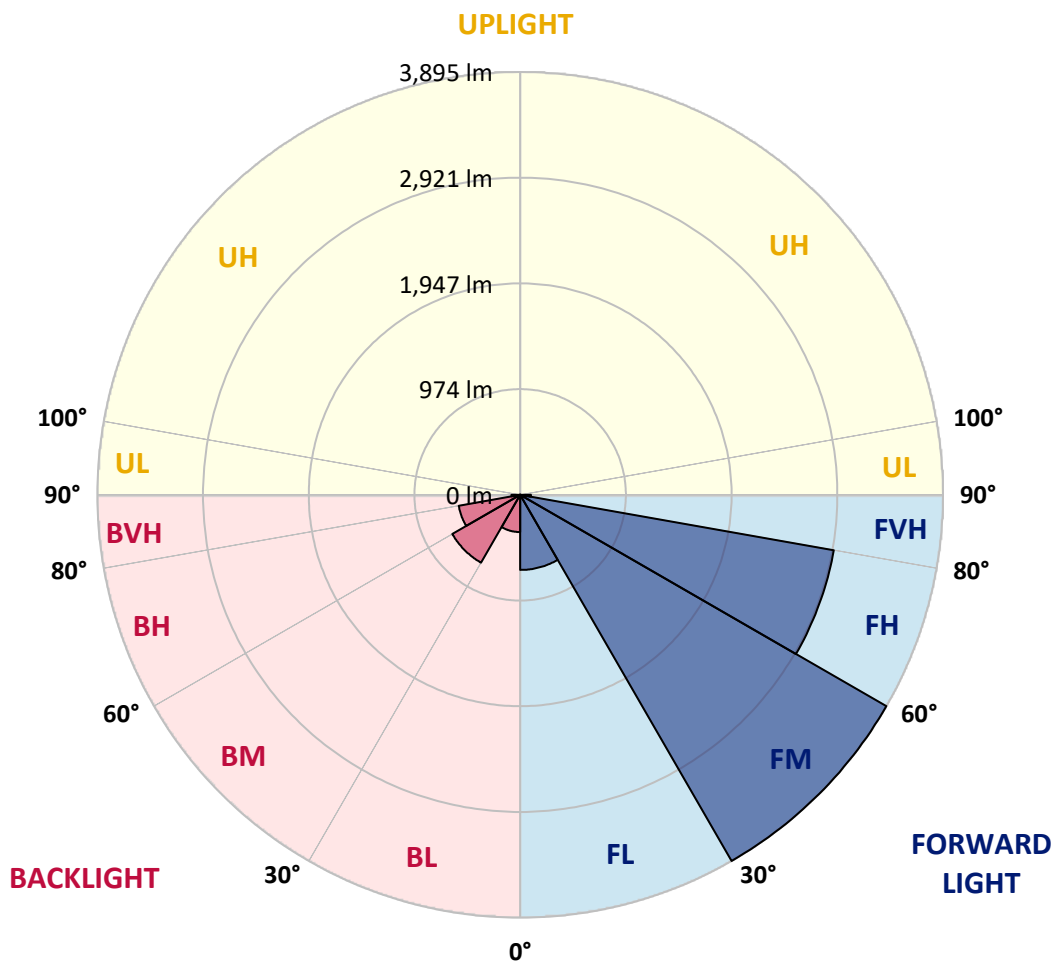
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.0	7.4			
FM (30°-60°)	3894.8	41.7			
FH (60°-80°)	2933.4	31.4			G2/5000
FVH (80°-90°)	98.4	1.1			G1/100
BL (0°-30°)	343.1	3.7	B1/500		
BM (30°-60°)	721.6	7.7	B1/1000		
BH (60°-80°)	574.5	6.2	B2/1000		G2/1000
BVH (80°-90°)	80.6	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°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1419.2	1411.0	1412.2	1410.0	1403.1	1391.2	1378.3	1354.9	1330.4	1317.5	1307.5
5°	1537.9	1535.5	1532.3	1524.9	1507.4	1482.6	1451.8	1410.4	1365.8	1342.5	1319.9
7.5°	1626.6	1625.1	1621.1	1616.4	1599.4	1569.5	1523.1	1464.3	1399.4	1367.3	1332.3
10°	1633.9	1636.1	1639.4	1651.8	1654.0	1638.1	1590.7	1519.5	1434.3	1392.9	1348.4
12.5°	1571.3	1576.4	1588.8	1620.6	1654.0	1673.9	1649.5	1577.3	1475.3	1425.2	1368.6
15°	1488.6	1491.4	1506.5	1550.3	1610.5	1671.5	1694.6	1641.3	1528.2	1466.6	1398.9
17.5°	1453.2	1454.6	1465.1	1494.1	1550.3	1637.6	1719.8	1710.7	1593.0	1518.0	1436.2
20°	1435.3	1438.5	1453.7	1482.2	1517.6	1593.9	1723.6	1785.7	1670.2	1582.4	1483.0
22.5°	1486.4	1485.0	1490.6	1504.7	1534.5	1580.6	1720.9	1862.9	1768.6	1665.1	1544.3
25°	1605.3	1610.5	1600.7	1584.7	1594.3	1626.6	1735.5	1946.6	1891.9	1771.3	1624.2
27.5°	1775.0	1770.0	1755.7	1718.0	1698.2	1712.1	1784.2	2036.6	2044.9	1911.2	1730.0
30°	1944.3	1940.1	1926.2	1880.4	1839.8	1828.4	1878.9	2140.1	2227.5	2078.8	1859.6
32.5°	2119.8	2115.3	2102.3	2056.4	2007.6	1981.0	2013.6	2259.6	2442.6	2279.3	2012.2
35°	2336.4	2327.7	2300.6	2236.6	2188.8	2168.1	2183.3	2409.9	2690.8	2516.6	2197.5
37.5°	2540.1	2553.4	2525.7	2437.5	2375.4	2368.0	2385.1	2593.4	2958.4	2781.8	2410.4
40°	2744.6	2746.9	2722.0	2649.9	2586.0	2574.0	2616.9	2815.8	3274.3	3099.0	2669.2
42.5°	2956.1	2960.7	2918.9	2852.2	2805.3	2807.6	2856.4	3076.5	3636.4	3472.8	2967.2
45°	3206.6	3213.6	3167.5	3080.2	3037.5	3123.4	3103.2	3368.9	4033.8	3897.6	3309.1
47.5°	3468.7	3479.3	3444.3	3362.5	3309.1	3427.4	3350.1	3693.1	4461.3	4353.2	3684.8
50°	3611.7	3626.9	3660.8	3654.9	3643.4	3623.6	3625.4	4040.6	4902.1	4827.7	4071.0
52.5°	3534.9	3534.4	3658.5	3809.4	3970.3	3982.3	3961.0	4407.0	5314.1	5291.5	4434.7
55°	3183.7	3207.6	3395.6	3687.5	4127.0	4401.5	4464.0	4826.7	5718.6	5744.9	4803.8
57.5°	2598.8	2618.6	2872.4	3279.3	3915.6	4650.7	5179.4	5436.8	6171.1	6293.4	5295.2
60°	1762.7	1786.5	2055.5	2544.2	3346.4	4511.9	5860.2	6525.5	6712.6	6990.7	5984.7
62.5°	1035.8	1057.4	1276.7	1604.9	2356.1	3866.8	6159.1	8074.4	7572.8	8043.1	7036.8
65°	713.0	727.7	834.4	998.9	1353.9	2604.4	5788.5	9143.7	8896.3	9346.9	8256.4
67.5°	573.7	571.9	656.5	768.6	871.7	1342.9	4377.2	9022.7	10060.4	10248.4	8889.5
70°	472.6	470.8	528.3	621.1	696.5	756.3	2384.1	7614.2	9823.2	9899.4	8306.6
72.5°	395.4	397.1	434.0	502.9	571.4	569.6	1047.7	5356.3	7727.7	8255.5	6621.5
75°	333.8	334.7	359.0	407.7	464.0	458.8	568.2	2901.8	4492.0	4859.5	3670.6
77.5°	284.1	285.0	300.7	327.8	367.7	365.9	414.6	1253.8	1873.9	1850.9	1255.5
80°	253.3	253.3	260.7	265.7	287.8	279.4	307.6	602.2	792.1	731.5	501.1
82.5°	198.7	199.5	244.6	242.8	226.6	216.2	216.2	354.9	419.8	388.0	293.4
85°	111.7	111.2	157.7	190.3	199.5	152.2	150.8	198.7	228.5	201.4	142.0
87.5°	47.8	48.7	73.1	84.5	113.1	94.7	93.3	102.4	116.4	100.6	65.8
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°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1297.8	1285.9	1259.6	1227.0	1197.6	1178.3	1160.9	1135.5	1137.0	1119.5	1106.6
5°	1296.9	1272.1	1211.3	1139.2	1069.7	1019.7	982.0	948.0	939.7	923.6	914.0
7.5°	1297.8	1257.3	1155.3	1039.9	954.0	890.5	858.3	840.4	836.3	830.7	831.3
10°	1301.1	1244.0	1093.6	947.1	856.9	815.1	807.3	812.8	819.2	821.1	821.5
12.5°	1308.4	1232.1	1026.2	864.4	796.3	783.4	796.7	815.6	827.9	833.9	833.5
15°	1325.0	1222.9	961.3	799.4	762.7	769.6	794.5	821.1	839.0	847.3	847.8
17.5°	1342.9	1209.6	894.7	749.8	737.8	755.3	786.1	817.4	839.4	848.7	850.5
20°	1366.3	1193.0	824.8	712.6	714.4	734.2	763.1	794.5	818.8	826.6	830.3
22.5°	1397.1	1175.1	763.6	682.3	687.8	703.0	725.5	752.6	773.8	777.4	780.6
25°	1438.5	1155.8	714.9	654.7	656.9	665.7	680.9	697.0	711.8	707.6	710.7
27.5°	1494.1	1139.2	678.6	629.4	625.3	627.0	634.9	639.9	647.8	636.3	637.6
30°	1559.4	1121.3	650.5	607.3	595.8	592.6	594.5	597.2	603.2	587.6	585.2
32.5°	1635.3	1099.7	624.3	588.1	571.9	565.5	566.4	573.7	596.8	587.0	582.1
35°	1723.6	1075.3	596.8	566.8	555.8	546.7	545.8	568.7	637.2	631.2	626.6
37.5°	1827.1	1051.0	569.1	542.9	543.9	533.7	530.6	556.7	644.9	621.5	618.3
40°	1958.5	1038.1	545.8	517.7	529.2	527.7	521.3	534.8	593.5	550.7	545.2
42.5°	2121.3	1039.9	528.3	490.6	511.7	526.4	516.2	516.8	537.9	505.8	500.6
45°	2322.1	1061.6	515.8	468.9	491.8	525.0	514.4	507.1	508.9	491.8	489.2
47.5°	2556.5	1106.1	507.1	451.0	473.1	520.0	513.9	504.3	500.2	491.0	488.7
50°	2817.2	1170.9	500.6	434.0	456.0	511.7	514.4	501.6	497.0	493.3	491.8
52.5°	3073.4	1245.0	491.0	419.2	442.7	501.6	515.8	498.8	493.8	491.0	489.6
55°	3358.8	1337.4	476.3	406.9	431.7	488.7	515.8	494.7	489.2	489.6	489.2
57.5°	3744.6	1486.8	458.8	396.3	418.4	473.1	507.1	490.0	483.2	483.7	484.1
60°	4347.2	1750.3	437.7	385.6	401.8	454.6	495.2	479.9	473.1	474.9	475.4
62.5°	5233.6	2136.9	410.0	370.1	384.4	435.0	478.5	467.1	460.2	464.8	464.8
65°	6154.9	2478.0	376.1	350.2	365.9	413.3	457.9	451.0	444.1	454.6	454.2
67.5°	6402.7	2401.6	342.1	328.8	347.6	389.4	433.1	429.4	425.7	444.1	443.1
70°	5687.8	1928.1	310.8	306.7	327.3	363.7	406.5	406.5	404.2	417.9	414.6
72.5°	4333.4	1367.3	280.9	283.2	304.4	335.7	377.5	380.7	377.0	383.8	381.1
75°	2319.8	782.6	251.0	257.5	275.9	307.1	345.3	348.4	346.2	345.7	347.1
77.5°	771.0	382.5	219.7	229.9	246.0	277.6	311.7	316.8	311.3	310.3	309.9
80°	343.4	240.5	185.3	198.7	212.8	244.0	276.3	280.5	274.5	282.8	272.2
82.5°	220.7	158.1	148.5	163.3	177.0	210.6	240.9	241.8	236.3	274.5	234.1
85°	107.1	97.9	111.7	125.1	137.0	165.5	199.5	200.0	186.2	169.7	163.7
87.5°	53.3	57.1	74.6	86.5	92.5	113.5	145.4	142.5	136.6	124.1	114.5
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)