

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: P271337

Luminaire Tested: **XNV2-AF-02-LED-U-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-T2-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10254.5 lumens
Efficiency: N/A
Efficacy: 92.4 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

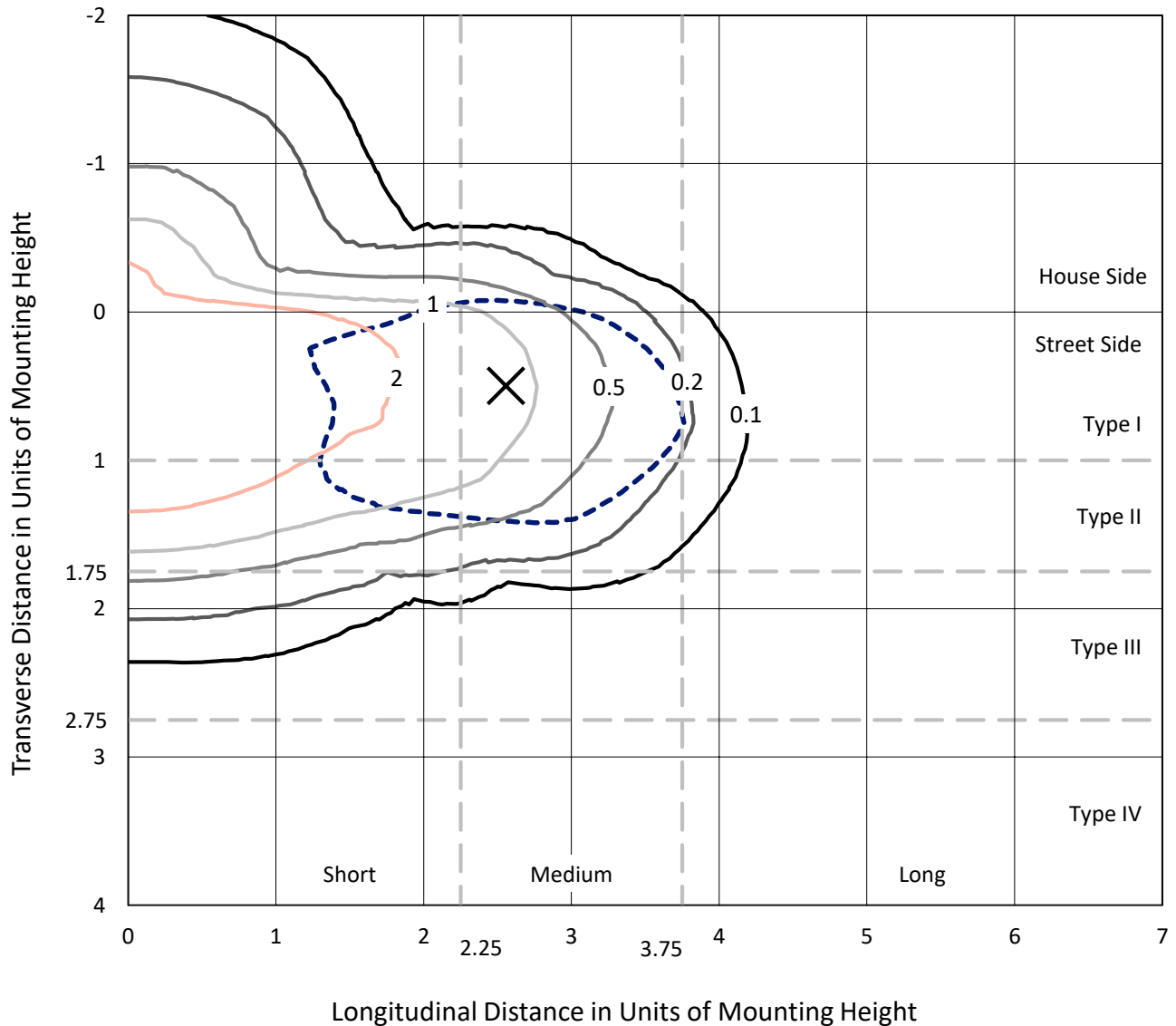
Input Watts (W): 111
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271337
 CATALOG NUMBER: XNV2-AF-02-LED-U-T2-7027

Iso-Footcandle Lines of Horizontal Illumination

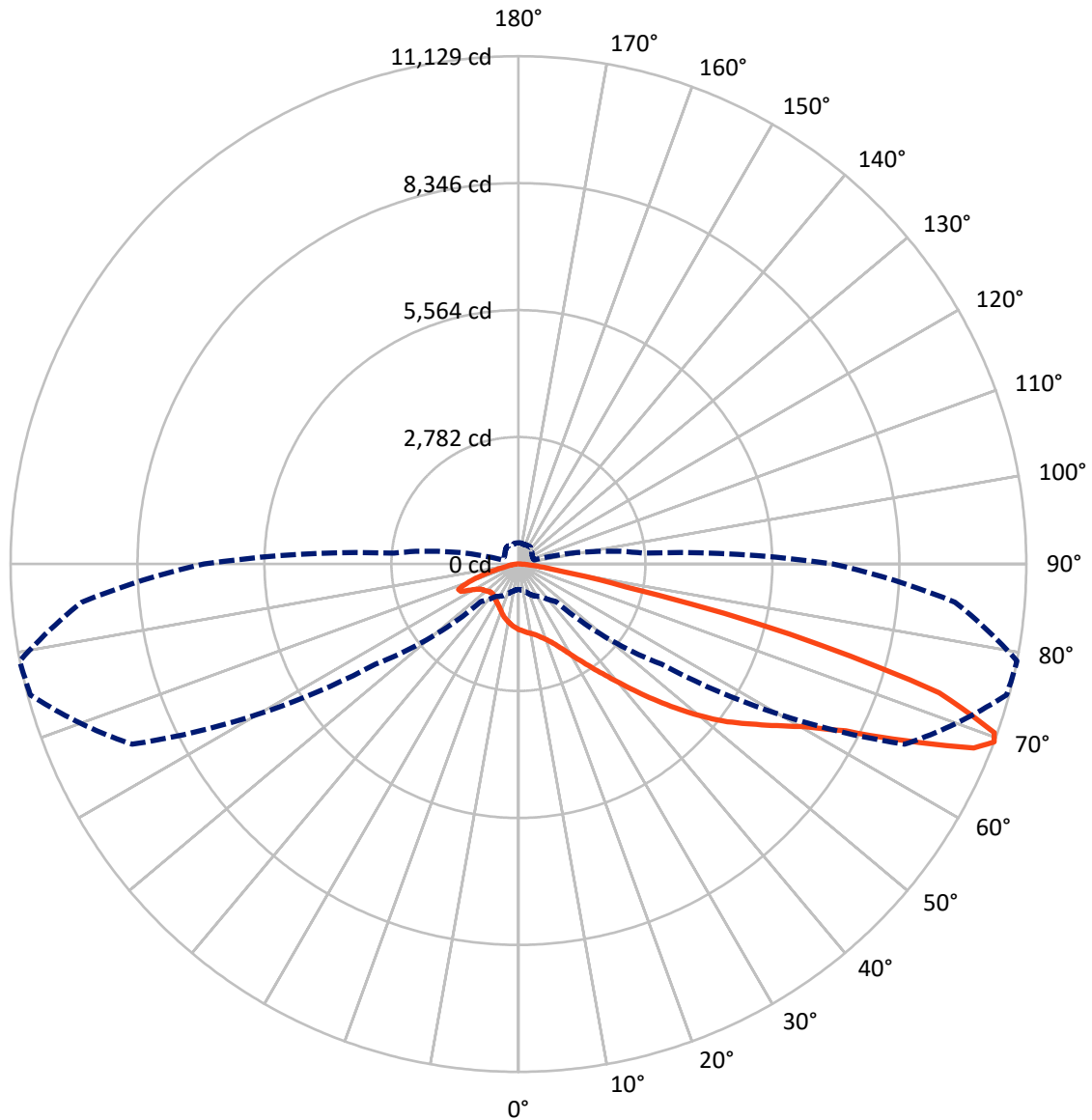
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P271337
CATALOG NUMBER: XNV2-AF-02-LED-U-T2-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P271337

CATALOG NUMBER: XNV2-AF-02-LED-U-T2-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.1	0.0	1929.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8325.5	0.0	8325.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	10254.5	0.0	10254.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.3
10°-20°	382.5	3.7
20°-30°	632.0	6.2
30°-40°	1023.4	10.0
40°-50°	1634.8	15.9
50°-60°	2341.2	22.8
60°-70°	2608.5	25.4
70°-80°	1305.0	12.7
80°-90°	193.7	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°	10254.5	100.0
0°-180°	10254.5	100.0

Coefficient of Utilization



REPORT NUMBER: P271337

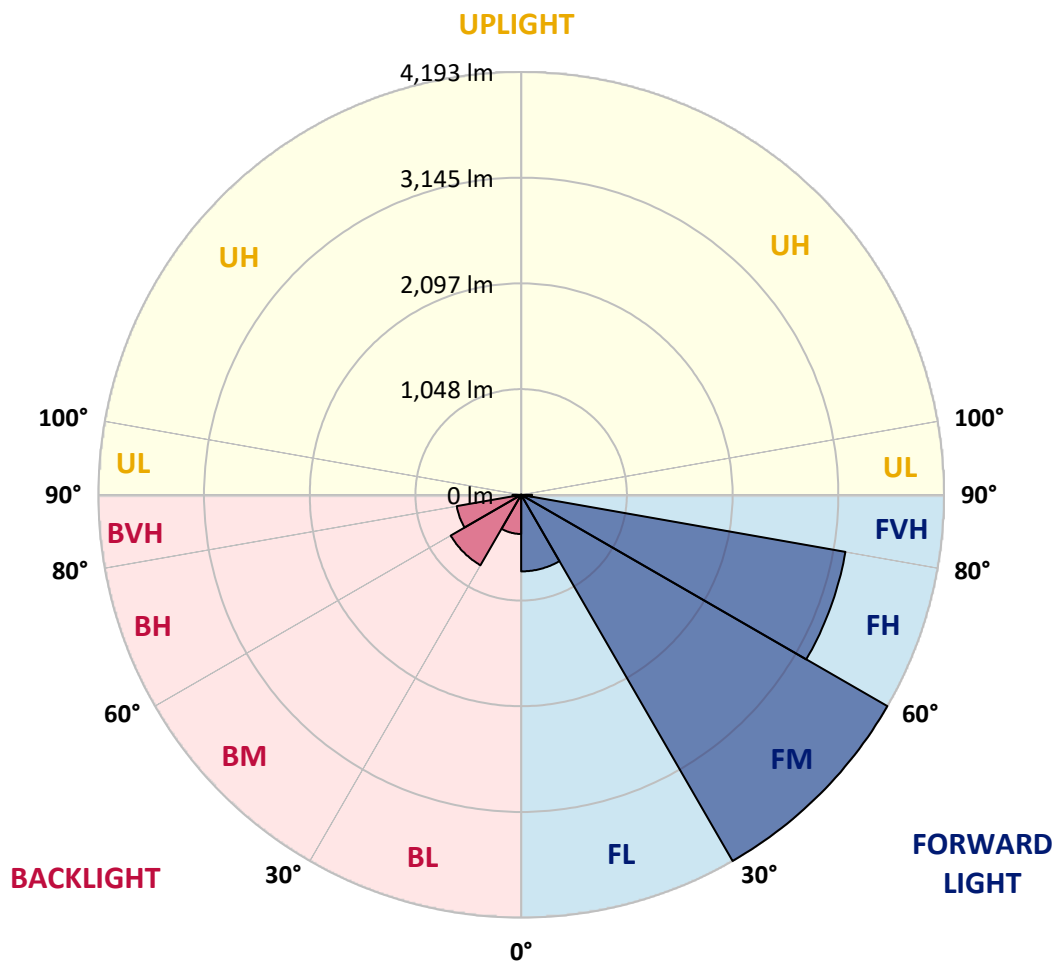
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.3	7.4			
FM (30°-60°)	4193.1	40.9			
FH (60°-80°)	3264.9	31.8			G2/5000
FVH (80°-90°)	108.2	1.1			G2/225
BL (0°-30°)	388.6	3.8	B1/500		
BM (30°-60°)	806.4	7.9	B1/1000		
BH (60°-80°)	648.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	85.4	0.8			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





REPORT NUMBER: P271337

CATALOG NUMBER: XNV2-AF-02-LED-U-T2-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1579.8	1576.5	1575.8	1565.8	1560.4	1549.0	1522.2	1494.7	1469.2	1455.9	1441.7
5°	1712.1	1705.3	1702.0	1685.2	1670.5	1644.9	1602.8	1559.1	1513.6	1490.0	1461.8
7.5°	1791.8	1792.6	1792.6	1779.2	1764.5	1733.5	1679.9	1620.2	1552.5	1521.5	1477.3
10°	1798.6	1799.2	1809.4	1812.7	1816.1	1799.9	1750.3	1675.2	1587.9	1547.7	1490.0
12.5°	1732.2	1737.0	1753.8	1777.8	1812.1	1829.5	1808.0	1734.2	1633.6	1584.6	1514.2
15°	1643.0	1647.8	1669.1	1706.1	1761.0	1819.3	1849.6	1802.0	1693.2	1635.6	1549.8
17.5°	1599.3	1604.7	1619.6	1649.0	1702.6	1781.2	1871.8	1874.5	1763.7	1697.3	1591.9
20°	1578.6	1582.6	1601.4	1625.6	1666.4	1741.6	1873.8	1950.8	1847.6	1770.5	1643.7
22.5°	1626.2	1627.5	1636.9	1650.4	1677.9	1735.5	1872.3	2030.1	1952.2	1862.4	1710.1
25°	1765.8	1757.1	1750.3	1733.5	1740.2	1781.2	1893.8	2114.6	2086.5	1983.1	1798.6
27.5°	1930.7	1929.4	1912.0	1873.1	1848.3	1874.5	1954.9	2209.2	2250.9	2136.8	1914.6
30°	2114.6	2115.2	2097.2	2049.6	1999.2	2002.0	2052.2	2318.5	2447.3	2321.8	2057.6
32.5°	2307.1	2319.2	2285.6	2238.0	2177.0	2157.5	2191.8	2450.8	2674.9	2540.6	2223.2
35°	2537.3	2539.2	2502.4	2432.6	2371.5	2340.8	2372.2	2615.8	2937.1	2797.5	2425.2
37.5°	2776.1	2777.4	2739.2	2650.0	2572.8	2552.8	2587.6	2816.4	3214.9	3090.1	2662.8
40°	2971.4	2985.3	2955.2	2871.3	2793.5	2781.4	2831.7	3056.6	3569.8	3436.2	2945.2
42.5°	3192.7	3208.8	3172.5	3085.4	3023.7	3019.7	3098.2	3330.2	3922.5	3836.8	3265.2
45°	3442.2	3465.1	3414.7	3316.8	3264.5	3353.1	3357.8	3633.5	4329.2	4284.8	3625.4
47.5°	3714.6	3733.4	3692.6	3587.2	3530.2	3658.3	3612.1	3961.5	4768.7	4765.2	4015.2
50°	3924.6	3945.4	3949.5	3903.1	3843.5	3859.6	3891.1	4306.4	5206.7	5258.9	4418.5
52.5°	3886.3	3906.5	3997.1	4118.5	4214.5	4172.8	4211.2	4672.7	5629.9	5740.7	4801.5
55°	3577.8	3588.5	3758.2	4046.8	4455.4	4653.8	4656.5	5071.1	6032.6	6187.5	5165.1
57.5°	3021.5	3022.9	3243.7	3669.0	4315.1	4965.8	5359.6	5571.6	6452.4	6681.2	5615.9
60°	2138.1	2143.4	2400.5	2956.5	3812.5	4928.3	6115.8	6467.3	6938.9	7236.0	6196.9
62.5°	1269.2	1281.4	1475.2	1921.4	2831.7	4445.3	6562.5	8060.6	7655.4	8049.8	7126.8
65°	825.8	836.0	951.9	1176.1	1673.2	3234.3	6415.6	9603.6	9011.3	9329.8	8463.1
67.5°	636.0	644.1	735.4	870.7	1026.5	1748.3	5129.5	9927.0	10661.7	10760.8	9590.8
69°	558.8	565.6	632.6	762.8	864.1	1157.2	3822.6	9339.9	11074.1	11128.6	9604.9
70°	518.0	523.4	586.4	699.1	793.7	923.7	2925.7	8658.4	10923.2	11062.1	9327.9
72.5°	426.6	431.4	476.3	562.9	648.8	658.1	1296.2	6322.4	9197.7	9641.9	7893.5
75°	356.3	359.0	388.4	451.5	525.2	523.9	662.1	3581.2	5612.6	6141.9	4873.9
77.5°	297.2	299.2	318.7	357.5	414.6	412.6	466.3	1545.8	2478.2	2391.0	1677.9
80°	262.3	263.7	273.8	283.8	319.9	318.0	345.5	709.8	1008.3	931.8	634.7
82.5°	199.2	201.8	253.0	257.6	248.2	239.5	240.8	413.3	516.5	470.4	340.7
85°	112.6	113.4	162.4	189.8	216.0	162.4	156.3	213.3	254.8	223.4	148.8
87.5°	50.3	52.3	77.9	89.9	116.7	95.3	89.2	90.5	110.0	91.3	59.1
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: P271337

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1428.2	1416.8	1390.0	1362.5	1335.1	1317.6	1299.5	1282.7	1276.0	1275.4	1262.6
5°	1434.4	1407.6	1346.5	1279.4	1215.6	1166.0	1124.4	1097.5	1071.4	1066.6	1055.2
7.5°	1436.4	1392.7	1293.5	1186.1	1088.8	1020.5	978.9	960.6	947.9	944.6	940.5
10°	1435.8	1374.0	1234.5	1087.5	976.7	925.2	909.8	913.8	919.1	921.8	921.8
12.5°	1446.5	1365.2	1175.4	995.0	904.4	879.5	891.6	912.4	928.5	935.1	936.6
15°	1465.9	1359.9	1110.3	914.5	853.4	859.4	889.0	919.1	942.0	951.9	954.7
17.5°	1490.0	1352.5	1035.1	848.0	823.8	844.6	882.9	921.1	948.6	961.4	963.4
20°	1516.9	1341.8	957.4	798.4	797.7	823.8	862.1	905.0	934.5	948.6	947.9
22.5°	1553.1	1331.6	884.9	762.1	768.8	792.9	824.6	863.5	890.8	903.7	901.0
25°	1601.4	1322.2	819.9	730.0	735.9	752.1	774.2	803.8	823.1	829.9	825.2
27.5°	1666.4	1314.8	768.8	700.4	699.7	707.1	720.5	736.6	746.0	743.9	736.6
30°	1746.2	1307.6	731.3	674.3	664.8	664.1	670.2	679.6	685.6	673.5	667.5
32.5°	1835.5	1294.7	697.8	651.5	634.7	628.6	631.2	644.1	668.9	656.8	652.1
35°	1940.9	1280.1	664.1	626.6	613.8	602.5	604.5	632.0	707.1	698.4	693.8
37.5°	2067.7	1266.6	633.3	599.8	599.1	584.9	583.7	616.5	717.1	698.4	694.4
40°	2219.9	1263.9	605.7	570.2	580.9	575.6	571.0	591.1	661.5	623.2	615.9
42.5°	2403.8	1276.0	585.6	542.0	560.3	572.8	564.2	568.8	597.7	563.5	557.5
45°	2618.4	1308.9	571.0	517.2	538.1	571.0	560.8	556.8	561.5	542.8	538.8
47.5°	2868.6	1367.2	560.8	496.5	517.2	565.6	559.6	551.5	549.5	538.8	536.0
50°	3136.3	1445.7	554.2	477.7	498.5	556.2	558.8	547.4	544.1	539.4	538.1
52.5°	3402.1	1530.9	546.1	461.5	483.0	544.7	559.6	543.5	538.8	536.0	534.8
55°	3666.3	1619.6	531.3	447.4	471.6	531.3	558.8	538.1	532.6	532.6	532.6
57.5°	4009.1	1754.3	511.9	436.0	456.9	513.9	550.1	531.9	524.6	525.2	526.0
60°	4504.3	1980.5	490.5	423.3	437.5	493.8	536.6	521.2	512.6	515.3	515.8
62.5°	5331.5	2375.6	460.9	405.2	417.4	472.2	519.3	506.6	498.5	503.2	503.8
65°	6434.4	2853.9	421.9	382.4	396.5	448.2	497.1	489.0	480.4	491.7	491.1
67.5°	7107.3	2994.1	381.1	358.2	376.4	422.7	469.6	466.3	460.2	480.4	478.9
69°	6886.5	2740.5	357.5	342.9	362.2	405.2	452.1	450.8	446.2	465.6	464.2
70°	6543.8	2503.8	342.9	332.7	354.9	394.4	440.8	440.8	436.0	452.8	449.5
72.5°	5256.3	1856.9	308.6	307.3	329.4	364.9	409.8	413.3	410.5	416.6	413.3
75°	3086.0	1119.0	275.1	279.2	298.5	333.5	375.8	378.4	375.8	375.0	375.8
77.5°	1070.1	501.9	242.8	248.9	265.7	301.2	338.1	343.5	339.5	334.8	336.1
80°	418.6	291.8	208.0	216.8	230.8	265.0	300.6	303.8	297.9	297.2	291.8
82.5°	251.5	177.8	161.7	175.8	193.2	230.1	259.6	258.4	253.6	281.1	246.2
85°	109.4	98.6	118.0	132.2	140.9	172.5	219.4	213.3	201.8	177.8	173.7
87.5°	44.2	50.9	65.0	78.5	84.5	111.4	150.2	144.8	147.0	120.7	120.2
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)