

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: P348630

Luminaire Tested: **ARCH-N-PA1-60-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 62
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

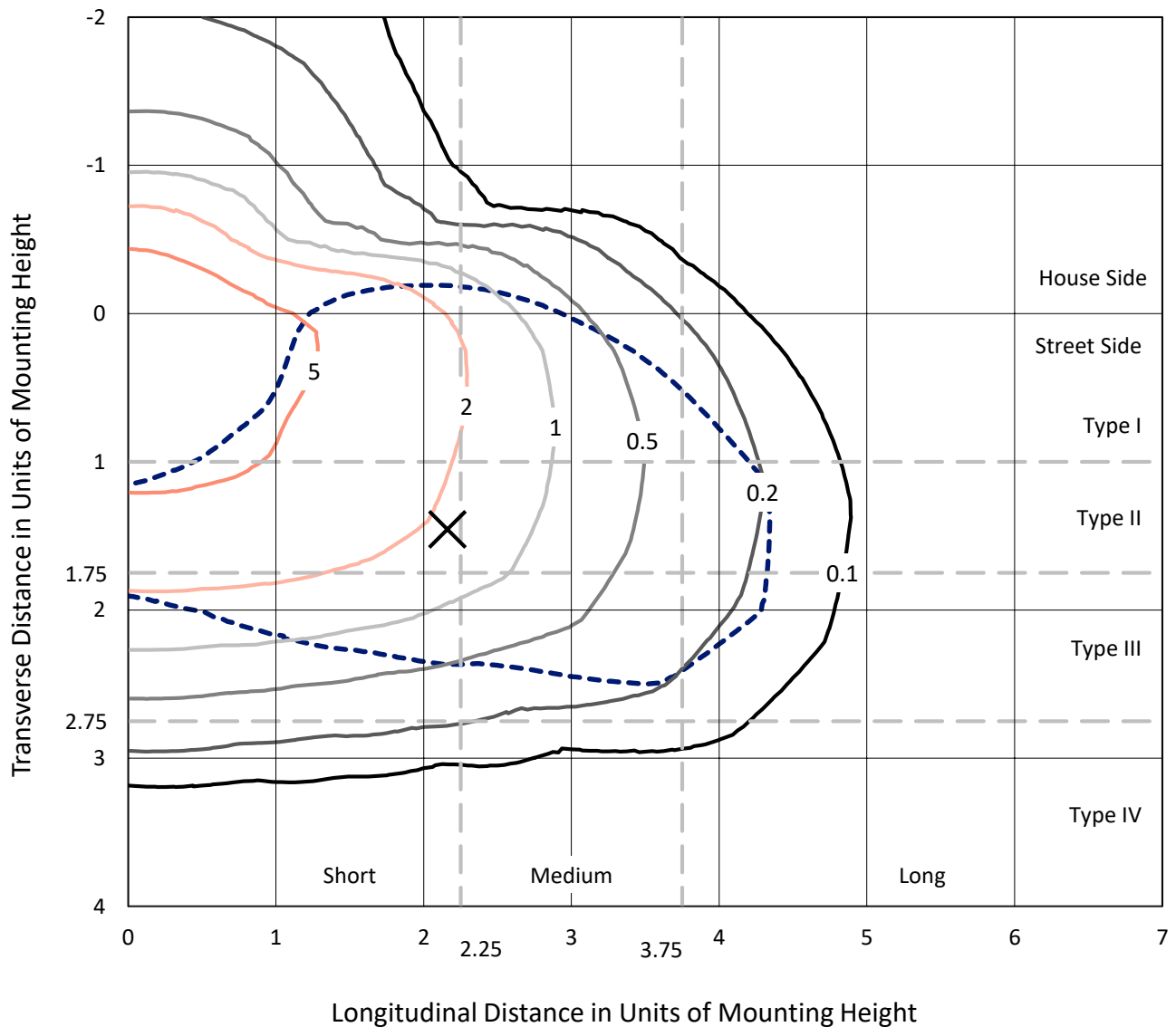


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

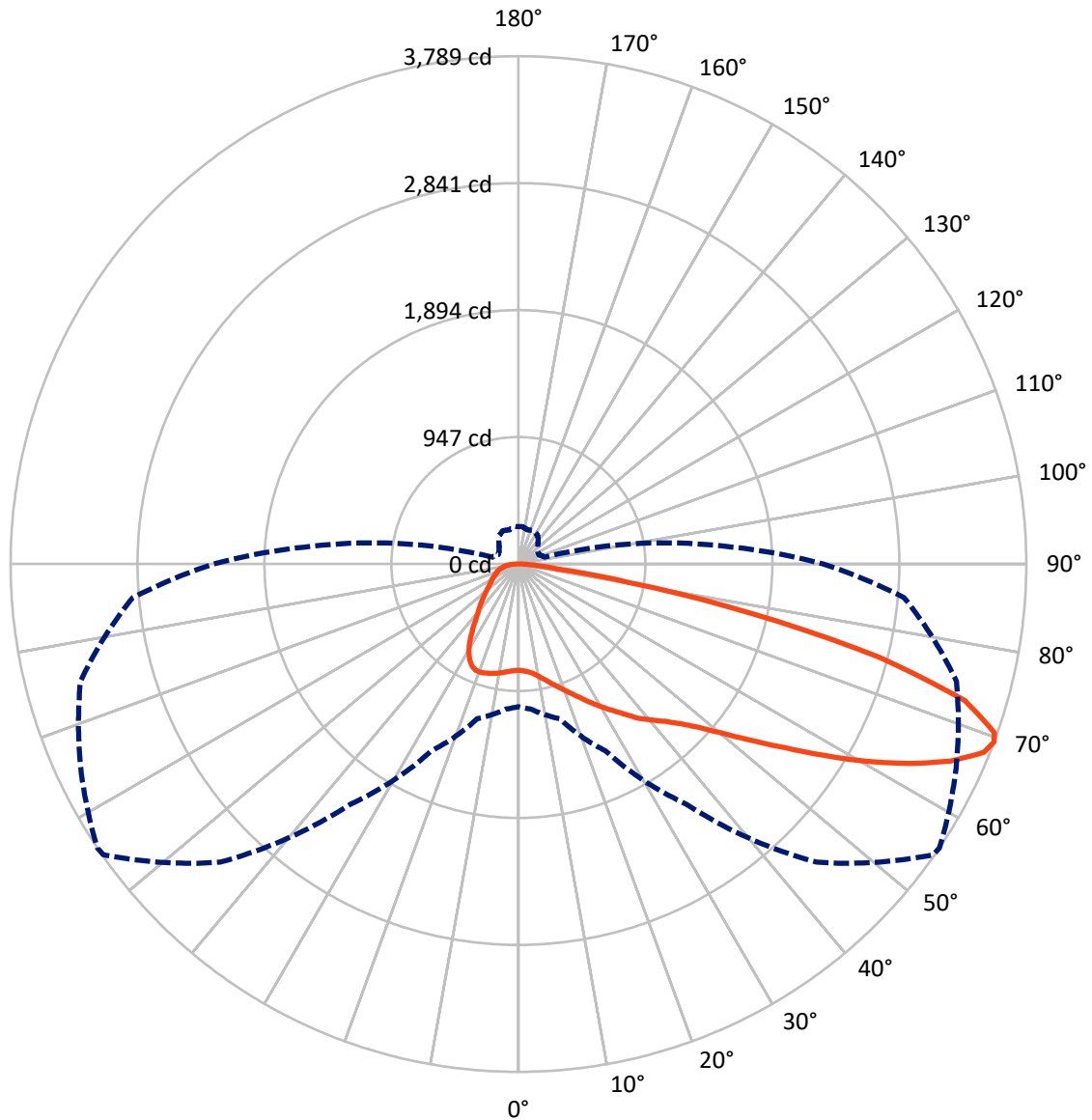


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.7	0.0	1350.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4714.3	0.0	4714.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	6065.0	0.0	6065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.3
10°-20°	250.4	4.1
20°-30°	437.1	7.2
30°-40°	627.9	10.4
40°-50°	869.0	14.3
50°-60°	1273.2	21.0
60°-70°	1552.3	25.6
70°-80°	858.2	14.2
80°-90°	118.9	2.0
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°	6065.0	100.0
0°-180°	6065.0	100.0



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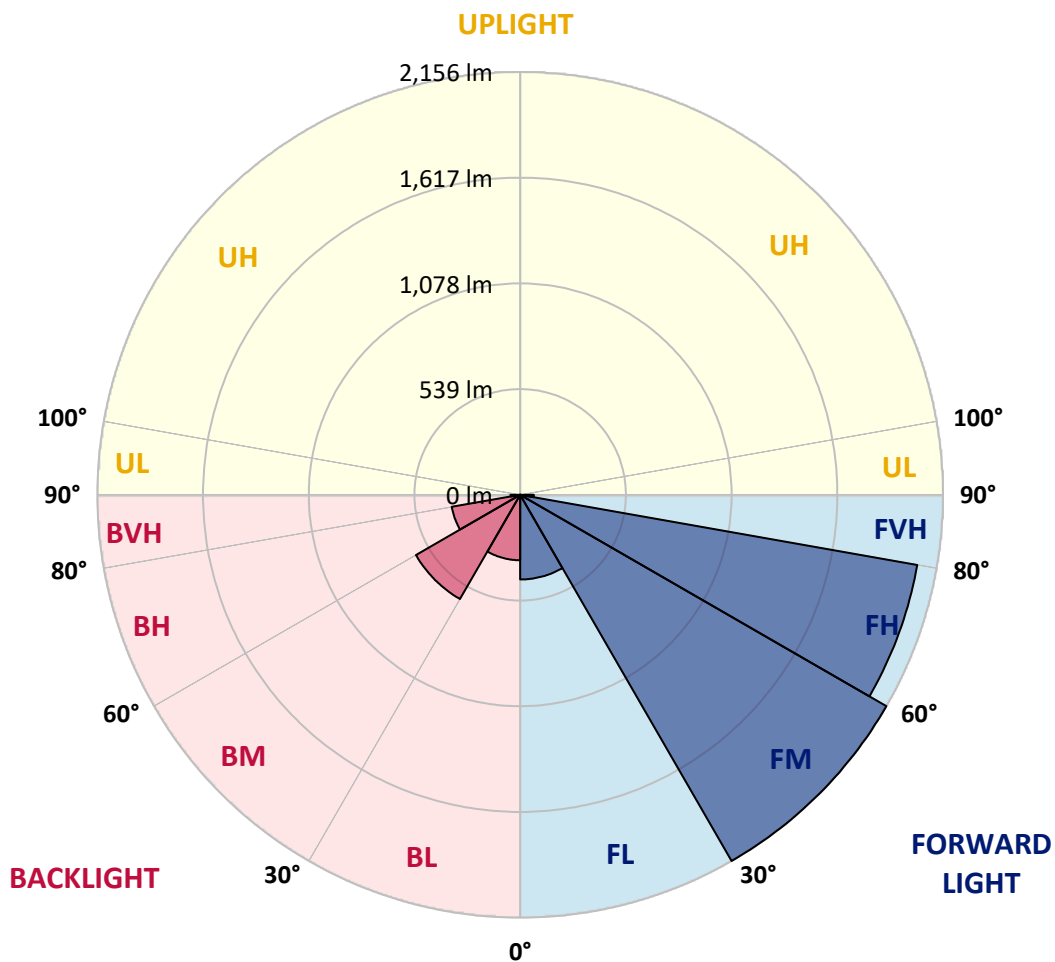
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.6	7.1			
FM	(30°-60°)	2156.3	35.6			
FH	(60°-80°)	2056.3	33.9			G2/5000
FVH	(80°-90°)	70.0	1.2			G1/100
BL	(0°-30°)	333.8	5.5	B1/500		
BM	(30°-60°)	613.9	10.1	B1/1000		
BH	(60°-80°)	354.2	5.8	B1/500		G1/500
BVH	(80°-90°)	48.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
2.5°	797.9	798.8	798.1	799.8	797.9	799.2	798.1	798.1	797.5	795.6	793.5
5°	810.5	812.1	811.1	812.8	810.5	810.9	809.0	809.0	807.1	803.1	799.0
7.5°	830.1	832.0	831.1	832.8	829.7	829.7	827.2	827.0	823.2	816.7	811.9
10°	853.5	856.0	855.2	857.7	855.2	856.0	853.5	853.5	848.5	839.3	833.2
12.5°	887.6	890.7	888.4	888.2	887.1	888.8	886.7	886.3	881.7	869.2	860.8
15°	933.1	936.4	931.6	931.2	925.4	924.7	924.7	924.1	921.2	906.2	892.4
17.5°	985.5	986.6	982.4	975.7	968.2	963.4	962.8	964.4	964.4	946.9	925.0
20°	1036.9	1038.8	1035.5	1028.0	1018.3	1011.2	1006.2	1009.6	1009.4	988.5	957.3
22.5°	1092.9	1097.3	1092.3	1082.7	1071.4	1063.5	1054.7	1057.6	1057.8	1032.1	989.1
25°	1165.4	1161.5	1158.3	1144.8	1128.7	1120.5	1112.4	1115.3	1114.5	1079.1	1021.9
27.5°	1229.6	1230.4	1226.2	1211.8	1193.2	1175.3	1174.8	1176.7	1173.6	1128.0	1052.8
30°	1304.2	1304.6	1298.7	1285.8	1265.5	1242.3	1236.9	1240.0	1233.3	1174.4	1085.4
32.5°	1378.3	1380.4	1374.0	1358.3	1342.0	1313.8	1302.9	1305.0	1288.3	1221.9	1119.1
35°	1443.3	1446.2	1444.2	1433.7	1416.0	1391.7	1378.8	1377.5	1356.8	1279.9	1163.6
37.5°	1509.6	1512.3	1510.0	1501.2	1494.1	1468.4	1461.5	1461.5	1425.6	1339.3	1220.2
40°	1577.7	1581.8	1579.1	1567.0	1561.0	1549.3	1532.7	1528.8	1489.9	1410.5	1312.5
42.5°	1641.0	1646.4	1657.3	1650.2	1637.8	1639.5	1606.3	1604.2	1575.8	1515.8	1428.5
45°	1730.8	1738.8	1757.1	1751.7	1749.2	1740.0	1700.5	1698.6	1687.8	1657.5	1572.4
47.5°	1828.8	1839.7	1872.9	1873.9	1900.9	1883.5	1829.9	1823.4	1825.9	1827.1	1748.2
50°	1919.1	1931.0	1985.5	2011.2	2074.7	2078.5	1992.6	1986.8	1996.6	2025.4	1952.9
52.5°	1991.1	2006.2	2074.3	2153.7	2262.6	2293.5	2193.0	2188.6	2195.9	2245.6	2184.4
55°	2044.0	2060.3	2134.5	2279.1	2452.9	2507.4	2423.6	2419.5	2424.1	2487.4	2436.2
57.5°	2056.3	2060.3	2167.9	2363.5	2613.6	2744.6	2705.9	2697.6	2675.0	2730.2	2714.1
60°	1998.5	2014.3	2140.3	2393.1	2737.9	2978.4	3000.9	2990.5	2927.2	2972.3	2959.4
62.5°	1881.0	1909.5	2037.3	2348.0	2786.6	3169.3	3290.3	3277.8	3168.7	3198.0	3135.7
65°	1689.2	1701.4	1835.7	2192.4	2724.7	3291.6	3548.3	3542.1	3404.8	3359.0	3168.3
67.5°	1346.2	1368.9	1483.0	1867.0	2471.7	3277.1	3747.9	3747.2	3559.0	3418.8	3052.7
69°	1063.5	1087.1	1195.7	1538.0	2187.1	3145.3	3781.3	3788.6	3602.5	3382.4	2887.7
70°	847.9	875.2	949.8	1295.4	1934.5	2971.5	3753.5	3766.7	3594.1	3322.5	2735.4
72.5°	360.8	383.0	436.0	667.8	1179.0	2218.9	3432.0	3481.7	3400.4	3040.8	2260.7
75°	157.5	164.4	188.5	272.2	523.4	1207.6	2688.6	2780.5	2907.5	2570.3	1684.0
77.5°	115.3	118.3	131.4	159.8	234.8	456.1	1728.9	1782.4	2096.9	1870.4	1033.0
80°	89.2	91.3	101.5	117.4	153.4	184.5	788.5	834.5	1179.0	960.7	430.2
82.5°	71.0	72.5	79.6	86.5	105.9	111.8	261.8	290.4	435.2	265.3	113.9
85°	66.0	67.7	70.2	63.1	67.9	65.6	113.2	118.5	131.4	104.3	47.6
87.5°	29.9	35.3	69.6	49.1	36.1	28.8	46.4	48.5	54.5	54.7	21.1
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°	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
2.5°	794.8	794.2	795.2	792.7	795.8	795.6	794.6	795.0	797.1	796.9	797.1
5°	799.6	799.2	800.4	798.5	802.3	803.6	803.8	805.7	808.0	808.6	808.6
7.5°	811.7	811.7	812.3	809.8	812.3	812.1	811.1	813.0	815.3	815.5	815.3
10°	832.6	832.8	831.8	825.3	823.2	817.6	812.3	812.5	815.5	817.8	818.4
12.5°	858.9	858.1	853.5	841.6	832.8	821.3	815.9	815.7	818.6	820.5	821.1
15°	889.0	886.7	874.8	855.4	839.9	828.6	819.9	817.8	816.1	814.0	814.2
17.5°	917.4	912.2	892.4	865.4	849.1	834.1	817.1	803.6	794.2	788.7	787.1
20°	946.3	936.0	907.4	874.8	854.1	826.8	794.2	766.6	749.4	741.5	740.0
22.5°	972.6	956.1	921.4	884.6	850.2	802.1	750.9	710.8	687.0	676.3	677.2
25°	998.3	975.3	936.0	891.5	830.1	758.6	690.7	641.4	613.9	601.9	601.5
27.5°	1020.9	994.7	951.9	885.9	792.7	696.8	619.5	571.4	548.5	538.2	536.5
30°	1046.8	1019.2	973.0	864.4	738.0	625.3	549.9	516.1	499.8	489.5	487.7
32.5°	1078.3	1052.4	990.4	825.3	668.0	550.8	495.6	472.0	457.1	445.7	443.6
35°	1124.3	1096.3	994.7	769.3	591.1	491.8	455.7	431.5	411.4	396.6	395.1
37.5°	1181.9	1151.2	984.7	696.8	516.5	453.6	422.5	392.6	366.5	345.6	342.2
40°	1265.1	1218.7	956.9	613.2	461.5	424.1	390.1	356.0	323.6	299.2	294.4
42.5°	1365.0	1297.9	914.3	530.1	421.2	394.3	357.9	315.7	284.8	267.4	264.9
45°	1492.0	1380.2	855.2	457.4	381.5	364.4	323.2	284.4	265.1	252.4	250.3
47.5°	1637.0	1472.6	793.1	398.2	347.9	336.4	295.4	270.4	255.1	245.1	243.2
50°	1815.2	1576.8	727.3	349.8	314.0	302.7	282.3	262.6	250.5	242.8	240.9
52.5°	2016.2	1694.5	679.9	311.5	286.0	277.9	275.4	258.5	248.6	242.8	240.9
55°	2232.7	1814.2	628.7	279.3	261.8	264.1	270.8	258.9	252.2	245.1	242.4
57.5°	2449.3	1937.9	571.6	252.2	242.6	253.9	267.6	259.7	254.1	247.2	244.7
60°	2620.7	2016.2	483.3	229.4	227.3	242.6	260.1	253.4	246.1	246.3	245.9
62.5°	2700.7	2012.0	385.7	209.1	212.1	227.3	248.0	243.6	237.6	245.7	246.3
65°	2655.8	1911.8	300.2	190.8	195.8	211.4	235.5	238.8	240.9	256.6	258.7
67.5°	2467.3	1716.6	232.5	174.7	180.9	200.6	236.7	260.1	262.8	279.3	279.1
69°	2272.4	1533.6	202.0	166.3	173.6	203.3	253.0	273.7	263.5	281.0	278.5
70°	2109.0	1388.8	185.7	160.7	170.3	208.1	263.9	273.5	260.3	275.4	271.2
72.5°	1624.3	999.1	157.5	150.2	159.0	199.1	267.0	267.4	253.0	255.9	248.8
75°	1114.0	631.4	137.5	136.0	141.9	179.5	257.0	255.5	234.0	229.8	224.0
77.5°	614.3	320.7	116.8	122.4	126.4	159.0	233.6	231.5	213.7	205.0	202.9
80°	236.9	140.4	98.6	108.9	111.4	137.7	204.8	202.9	188.0	176.8	173.6
82.5°	89.4	73.5	81.5	94.2	93.4	113.7	173.4	172.4	158.0	141.4	136.4
85°	41.4	44.1	64.6	77.7	71.7	84.2	138.7	140.6	123.1	103.4	103.4
87.5°	17.6	24.7	45.8	58.7	48.3	56.8	101.8	97.2	89.2	61.8	58.1
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)