

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: P348595

Luminaire Tested: **ARCH-N-PA1-60-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348595
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-PA1-60-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6951 lumens
Efficiency: N/A
Efficacy: 112.1 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 (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

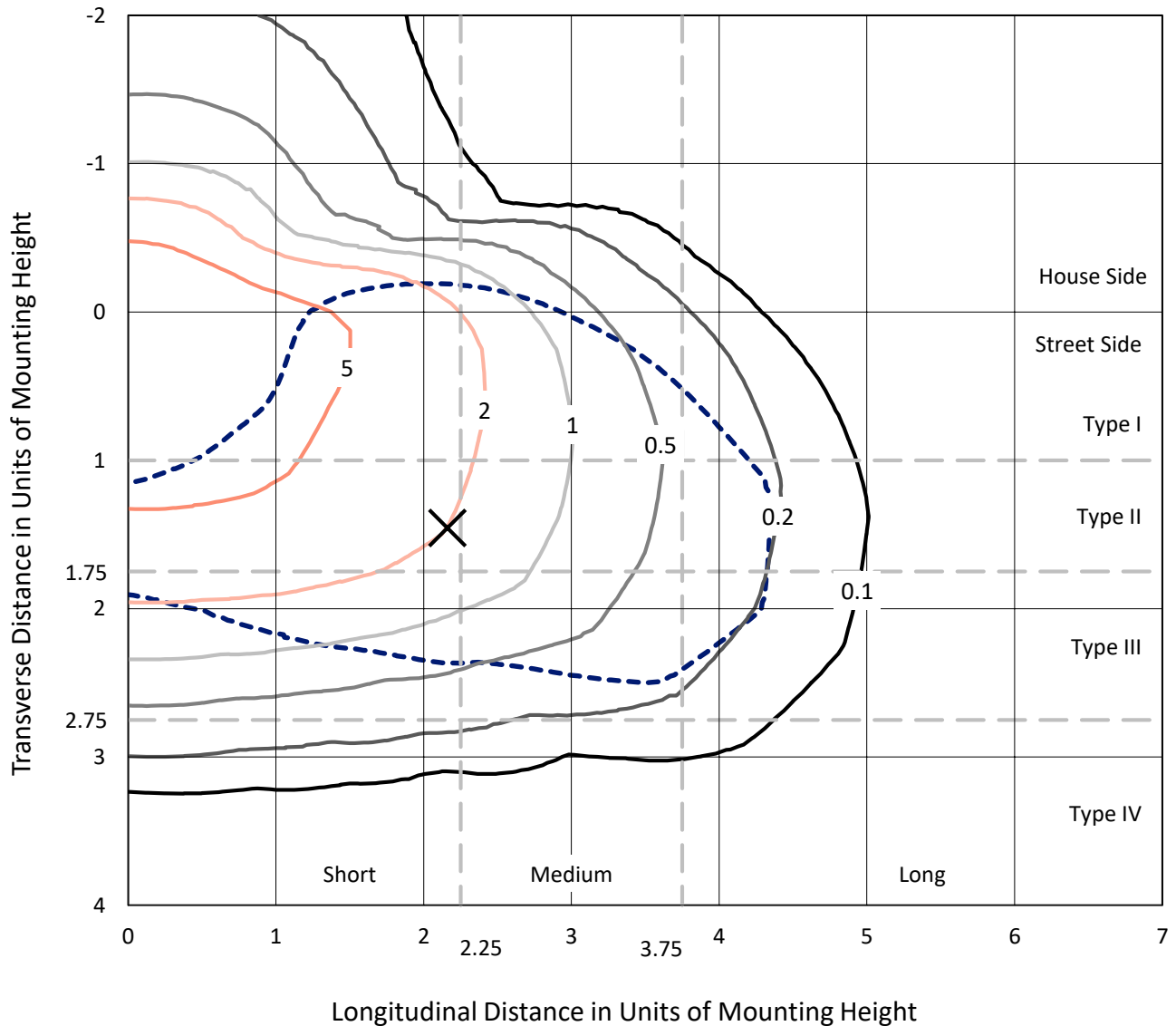


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

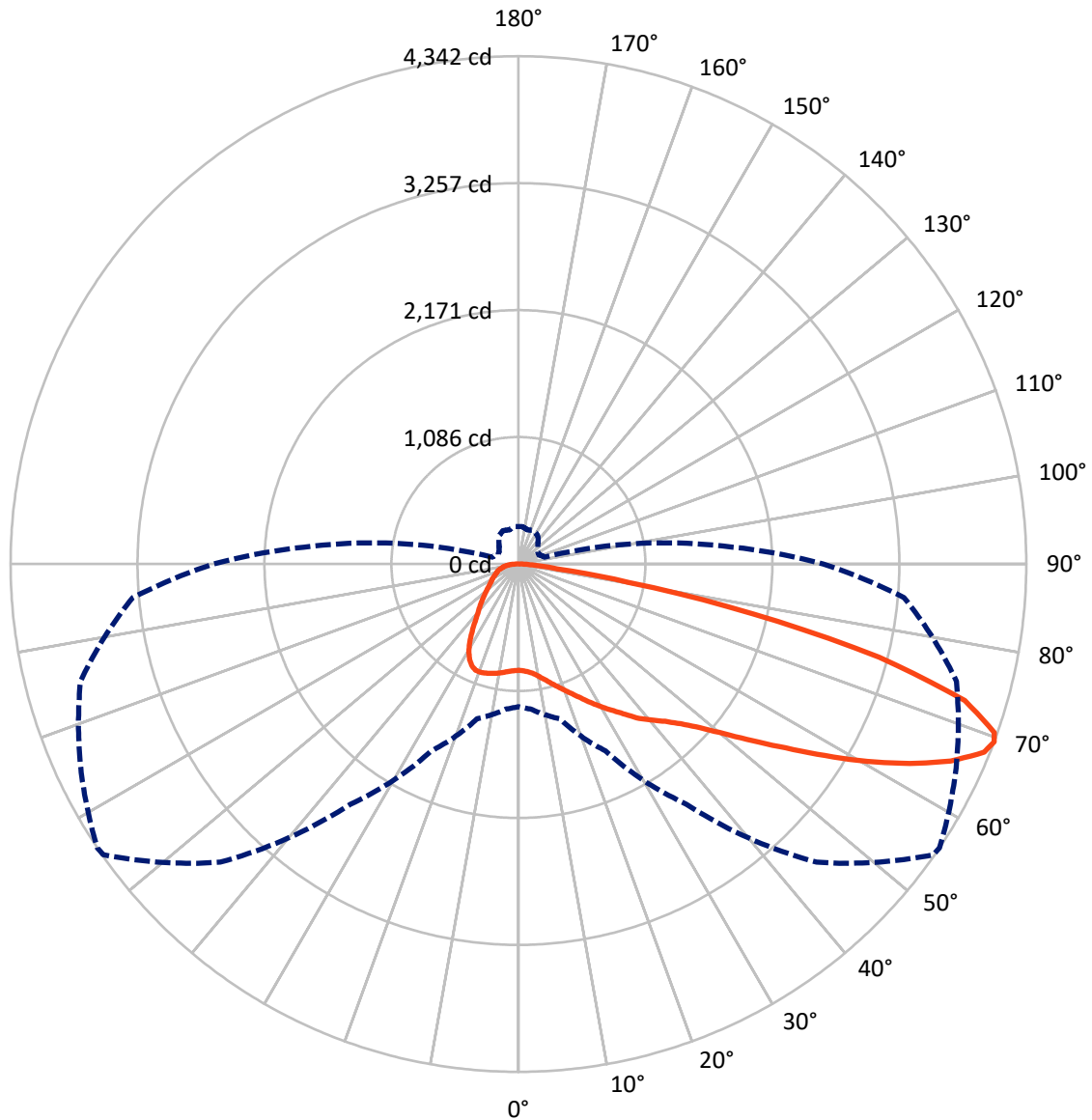


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Semi-Cutoff

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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	1548.0	0.0	1548.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5403.0	0.0	5403.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	6951.0	0.0	6951.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.3
10°-20°	287.0	4.1
20°-30°	501.0	7.2
30°-40°	719.7	10.4
40°-50°	996.0	14.3
50°-60°	1459.2	21.0
60°-70°	1779.1	25.6
70°-80°	983.6	14.2
80°-90°	136.2	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°	6951.0	100.0
0°-180°	6951.0	100.0



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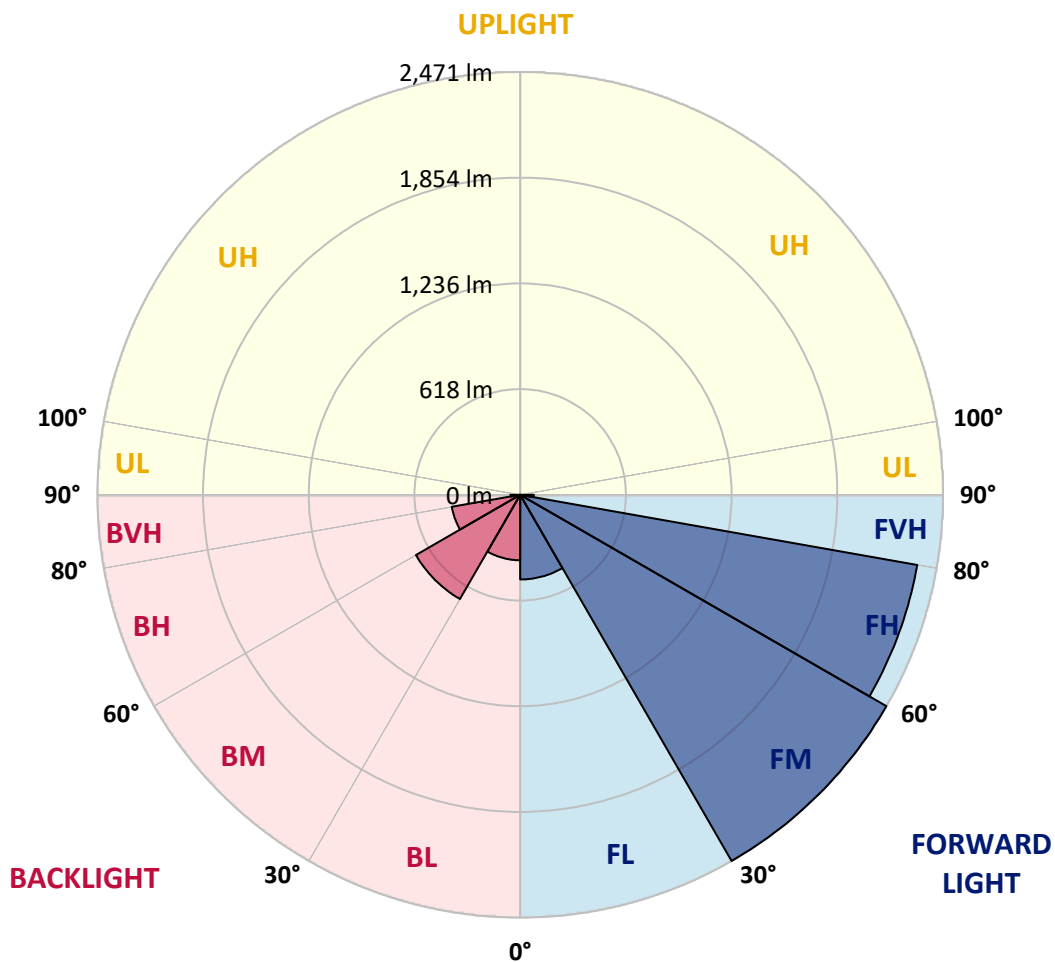
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.7	7.1			
FM (30°-60°)	2471.3	35.6			
FH (60°-80°)	2356.7	33.9			G2/5000
FVH (80°-90°)	80.2	1.2			G1/100
BL (0°-30°)	382.5	5.5	B1/500		
BM (30°-60°)	703.5	10.1	B1/1000		
BH (60°-80°)	405.9	5.8	B1/500		G1/500
BVH (80°-90°)	56.0	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°	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7
2.5°	914.5	915.4	914.7	916.6	914.5	915.9	914.7	914.7	914.0	911.9	909.5
5°	928.9	930.8	929.6	931.5	928.9	929.3	927.2	927.2	925.0	920.5	915.7
7.5°	951.4	953.5	952.6	954.5	950.9	950.9	948.0	947.8	943.5	936.0	930.5
10°	978.2	981.1	980.1	983.0	980.1	981.1	978.2	978.2	972.4	961.9	955.0
12.5°	1017.2	1020.8	1018.2	1017.9	1016.7	1018.6	1016.3	1015.8	1010.5	996.1	986.6
15°	1069.4	1073.2	1067.7	1067.3	1060.6	1059.8	1059.8	1059.1	1055.8	1038.5	1022.7
17.5°	1129.5	1130.7	1125.9	1118.3	1109.6	1104.1	1103.4	1105.3	1105.3	1085.2	1060.1
20°	1188.4	1190.6	1186.7	1178.1	1167.1	1159.0	1153.2	1157.1	1156.8	1132.9	1097.2
22.5°	1252.6	1257.6	1251.9	1240.9	1227.9	1218.8	1208.8	1212.1	1212.4	1182.9	1133.6
25°	1335.7	1331.1	1327.5	1312.0	1293.5	1284.2	1274.9	1278.2	1277.3	1236.8	1171.2
27.5°	1409.2	1410.2	1405.4	1388.8	1367.5	1346.9	1346.5	1348.6	1345.0	1292.8	1206.6
30°	1494.7	1495.2	1488.5	1473.6	1450.4	1423.8	1417.6	1421.2	1413.5	1346.0	1244.0
32.5°	1579.7	1582.1	1574.7	1556.7	1538.0	1505.7	1493.3	1495.6	1476.5	1400.3	1282.5
35°	1654.2	1657.5	1655.1	1643.2	1622.8	1595.0	1580.2	1578.7	1555.0	1466.9	1333.5
37.5°	1730.1	1733.2	1730.6	1720.5	1712.4	1682.9	1675.0	1675.0	1633.8	1534.9	1398.4
40°	1808.1	1812.9	1809.8	1795.9	1789.0	1775.6	1756.7	1752.1	1707.6	1616.6	1504.3
42.5°	1880.7	1886.9	1899.4	1891.2	1877.1	1879.0	1840.9	1838.5	1806.0	1737.3	1637.2
45°	1983.7	1992.8	2013.8	2007.6	2004.7	1994.2	1948.9	1946.8	1934.3	1899.6	1802.2
47.5°	2096.0	2108.4	2146.5	2147.7	2178.6	2158.7	2097.2	2089.7	2092.6	2094.0	2003.5
50°	2199.4	2213.1	2275.6	2305.0	2377.8	2382.1	2283.7	2277.0	2288.2	2321.3	2238.2
52.5°	2282.0	2299.3	2377.3	2468.3	2593.1	2628.5	2513.3	2508.3	2516.7	2573.7	2503.5
55°	2342.6	2361.3	2446.3	2612.0	2811.2	2873.7	2777.7	2772.9	2778.2	2850.7	2792.1
57.5°	2356.7	2361.3	2484.6	2708.7	2995.4	3145.5	3101.2	3091.6	3065.8	3129.0	3110.5
60°	2290.4	2308.6	2453.0	2742.7	3137.8	3413.5	3439.3	3427.3	3354.8	3406.5	3391.7
62.5°	2155.8	2188.4	2334.9	2691.0	3193.6	3632.3	3771.0	3756.6	3631.6	3665.1	3593.8
65°	1936.0	1949.9	2103.9	2512.6	3122.8	3772.4	4066.7	4059.5	3902.2	3849.7	3631.1
67.5°	1542.8	1568.9	1699.7	2139.8	2832.8	3755.9	4295.4	4294.7	4078.9	3918.2	3498.7
69°	1218.8	1245.9	1370.4	1762.6	2506.6	3604.8	4333.7	4342.1	4128.7	3876.6	3309.5
70°	971.7	1003.1	1088.6	1484.6	2217.1	3405.6	4301.8	4316.9	4119.1	3807.8	3135.0
72.5°	413.5	438.9	499.7	765.3	1351.3	2543.0	3933.3	3990.3	3897.2	3485.1	2590.9
75°	180.6	188.5	216.0	312.0	599.8	1384.1	3081.3	3186.7	3332.3	2945.8	1930.0
77.5°	132.2	135.5	150.6	183.2	269.1	522.7	1981.5	2042.8	2403.2	2143.6	1183.9
80°	102.2	104.6	116.4	134.6	175.8	211.4	903.7	956.4	1351.3	1101.0	493.0
82.5°	81.4	83.1	91.2	99.1	121.4	128.1	300.0	332.8	498.8	304.1	130.5
85°	75.7	77.6	80.5	72.3	77.8	75.2	129.8	135.8	150.6	119.5	54.6
87.5°	34.2	40.5	79.7	56.3	41.4	33.0	53.2	55.6	62.5	62.7	24.2
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°	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7
2.5°	910.9	910.2	911.4	908.5	912.1	911.9	910.7	911.1	913.5	913.3	913.5
5°	916.4	915.9	917.4	915.2	919.5	921.0	921.2	923.3	926.0	926.7	926.7
7.5°	930.3	930.3	931.0	928.1	931.0	930.8	929.6	931.7	934.4	934.6	934.4
10°	954.2	954.5	953.3	945.9	943.5	937.0	931.0	931.2	934.6	937.2	938.0
12.5°	984.4	983.4	978.2	964.5	954.5	941.3	935.1	934.8	938.2	940.3	941.1
15°	1018.9	1016.3	1002.6	980.3	962.6	949.7	939.6	937.2	935.3	932.9	933.2
17.5°	1051.5	1045.5	1022.7	991.8	973.2	955.9	936.5	921.0	910.2	903.9	902.0
20°	1084.5	1072.8	1040.0	1002.6	978.9	947.5	910.2	878.6	858.9	849.8	848.2
22.5°	1114.7	1095.8	1056.0	1013.9	974.3	919.3	860.6	814.6	787.3	775.1	776.1
25°	1144.1	1117.8	1072.8	1021.8	951.4	869.5	791.6	735.1	703.5	689.9	689.4
27.5°	1170.0	1140.1	1091.0	1015.3	908.5	798.6	710.0	654.9	628.6	616.8	614.9
30°	1199.7	1168.1	1115.2	990.6	845.8	716.7	630.3	591.5	572.8	561.0	558.9
32.5°	1235.8	1206.1	1135.0	945.9	765.5	631.2	568.0	540.9	523.9	510.8	508.4
35°	1288.5	1256.4	1140.1	881.7	677.4	563.7	522.3	494.5	471.5	454.5	452.8
37.5°	1354.6	1319.4	1128.6	798.6	591.9	519.9	484.2	449.9	420.0	396.1	392.2
40°	1449.9	1396.8	1096.7	702.8	529.0	486.1	447.1	408.0	370.9	342.9	337.4
42.5°	1564.4	1487.5	1047.9	607.5	482.7	451.9	410.2	361.8	326.4	306.5	303.6
45°	1710.0	1581.9	980.1	524.2	437.2	417.6	370.4	325.9	303.9	289.3	286.9
47.5°	1876.1	1687.7	909.0	456.4	398.7	385.5	338.6	309.9	292.4	280.9	278.7
50°	2080.4	1807.2	833.5	400.9	359.9	347.0	323.5	301.0	287.1	278.2	276.1
52.5°	2310.8	1942.0	779.2	357.0	327.8	318.5	315.6	296.2	285.0	278.2	276.1
55°	2558.8	2079.2	720.5	320.2	300.0	302.7	310.3	296.7	289.0	280.9	277.8
57.5°	2807.2	2221.0	655.2	289.0	278.0	290.9	306.7	297.6	291.2	283.3	280.4
60°	3003.5	2310.8	553.9	262.9	260.5	278.0	298.1	290.5	282.1	282.3	281.8
62.5°	3095.2	2306.0	442.0	239.7	243.0	260.5	284.2	279.2	272.3	281.6	282.3
65°	3043.7	2191.0	344.1	218.6	224.4	242.3	269.9	273.7	276.1	294.1	296.4
67.5°	2827.7	1967.4	266.5	200.2	207.4	229.9	271.3	298.1	301.2	320.2	319.9
69°	2604.3	1757.6	231.6	190.6	199.0	233.0	290.0	313.7	302.0	322.1	319.2
70°	2417.1	1591.7	212.9	184.1	195.2	238.5	302.4	313.4	298.4	315.6	310.8
72.5°	1861.5	1145.1	180.6	172.2	182.2	228.2	306.0	306.5	290.0	293.3	285.2
75°	1276.8	723.6	157.6	155.9	162.6	205.7	294.5	292.9	268.2	263.4	256.7
77.5°	704.0	367.6	133.9	140.3	144.9	182.2	267.7	265.3	245.0	234.9	232.5
80°	271.5	160.9	113.0	124.8	127.6	157.8	234.7	232.5	215.5	202.6	199.0
82.5°	102.5	84.3	93.4	108.0	107.0	130.3	198.7	197.6	181.0	162.1	156.4
85°	47.4	50.5	74.0	89.1	82.1	96.5	159.0	161.2	141.0	118.5	118.5
87.5°	20.1	28.3	52.4	67.3	55.3	65.1	116.6	111.3	102.2	70.9	66.6
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)