

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: P397762

Luminaire Tested: **ARCH-S-PA1-40-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-40-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5588 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 40
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

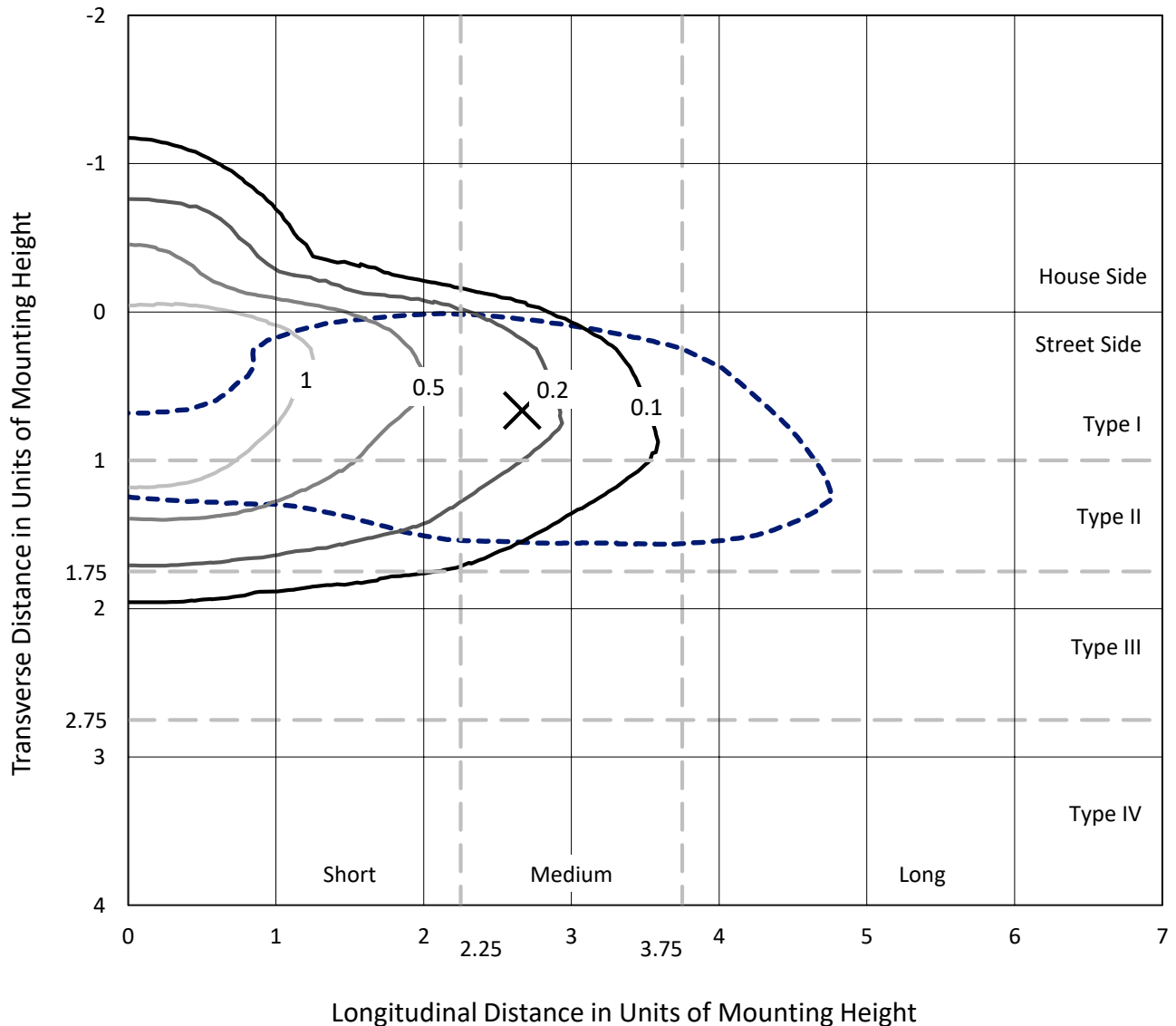


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

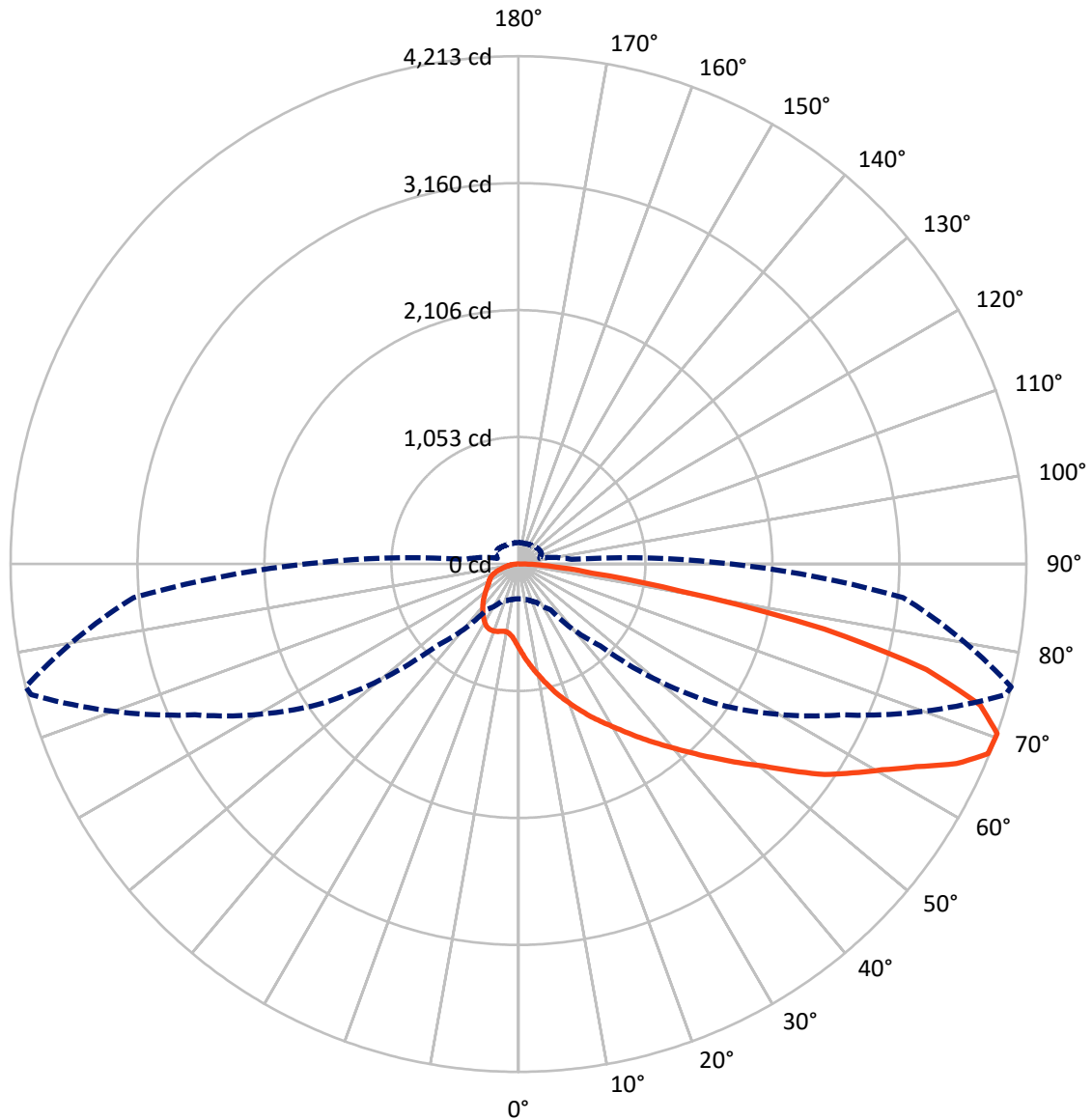


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.3	0.0	912.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	4675.7	0.0	4675.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	5588.0	0.0	5588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.3
10°-20°	246.8	4.4
20°-30°	441.5	7.9
30°-40°	714.2	12.8
40°-50°	1033.2	18.5
50°-60°	1182.6	21.2
60°-70°	1087.8	19.5
70°-80°	672.7	12.0
80°-90°	136.6	2.4
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°	5588.0	100.0
0°-180°	5588.0	100.0

Coefficient of Utilization



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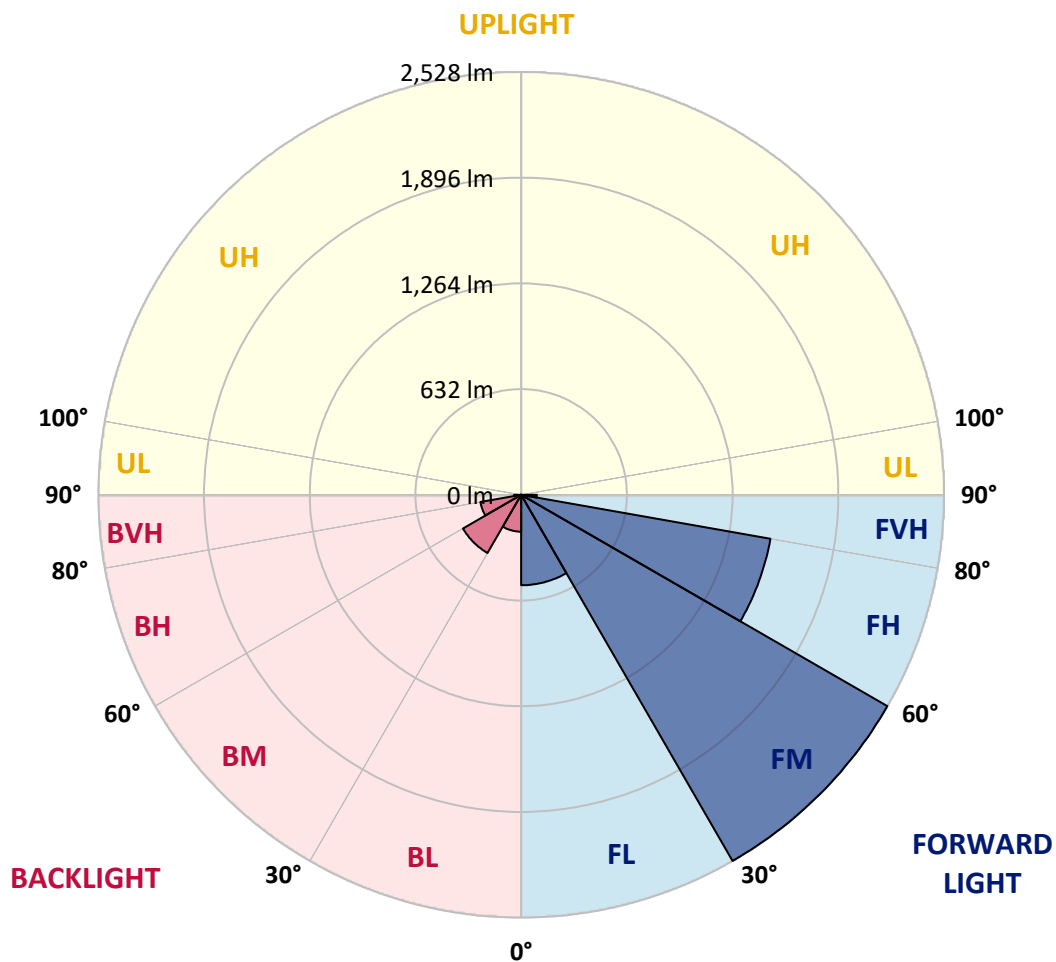
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.5	9.7			
FM (30°-60°)	2528.3	45.2			
FH (60°-80°)	1513.1	27.1			G1/1800
FVH (80°-90°)	93.8	1.7			G1/100
BL (0°-30°)	220.3	3.9	B1/500		
BM (30°-60°)	401.7	7.2	B1/1000		
BH (60°-80°)	247.4	4.4	B1/500		G1/500
BVH (80°-90°)	42.8	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8
2.5°	890.6	884.0	883.2	873.0	863.4	837.7	819.3	787.0	754.6	753.9	721.6
5°	1029.5	1022.9	1019.2	1006.7	990.5	956.7	923.7	873.7	818.6	814.9	753.9
7.5°	1123.5	1117.6	1110.3	1105.2	1089.7	1059.6	1019.2	959.7	884.0	876.6	791.4
10°	1186.7	1183.0	1181.6	1177.9	1168.3	1144.1	1105.2	1042.0	949.4	941.3	831.1
12.5°	1213.9	1212.4	1219.0	1229.3	1233.0	1223.5	1186.0	1126.5	1021.4	1012.6	878.8
15°	1182.3	1183.8	1200.7	1235.9	1273.4	1294.0	1272.0	1213.9	1102.9	1090.5	934.7
17.5°	1167.6	1169.8	1181.6	1215.4	1268.3	1332.2	1342.5	1296.9	1181.6	1163.9	993.5
20°	1193.3	1196.3	1205.1	1231.5	1268.3	1336.6	1390.3	1376.3	1258.7	1240.4	1050.0
22.5°	1258.7	1262.4	1261.7	1278.6	1303.6	1350.6	1416.7	1451.2	1339.6	1319.0	1108.8
25°	1398.3	1395.4	1370.4	1362.3	1368.9	1399.1	1452.0	1523.3	1424.1	1403.5	1170.6
27.5°	1587.9	1584.2	1538.7	1497.5	1460.8	1474.0	1501.9	1581.3	1510.0	1486.5	1229.3
30°	1790.7	1786.3	1733.4	1666.5	1585.0	1565.9	1562.2	1632.0	1596.7	1571.8	1291.8
32.5°	1988.4	1984.7	1928.1	1850.2	1737.8	1680.5	1645.2	1688.6	1695.2	1671.0	1360.1
35°	2168.4	2168.4	2119.9	2027.3	1900.2	1813.5	1755.5	1758.4	1808.4	1780.4	1438.0
37.5°	2328.6	2327.9	2275.0	2183.9	2061.9	1962.7	1890.7	1842.9	1916.4	1892.1	1519.6
40°	2455.7	2450.6	2411.6	2332.3	2209.6	2111.1	2038.4	1942.1	2036.9	2014.8	1606.3
42.5°	2548.3	2545.4	2518.9	2449.9	2333.0	2240.4	2190.5	2067.0	2173.6	2151.5	1707.7
45°	2584.3	2590.2	2590.2	2524.8	2432.2	2347.7	2325.7	2204.4	2321.3	2299.2	1816.4
47.5°	2526.3	2541.7	2573.3	2577.7	2496.1	2438.8	2446.2	2342.6	2473.4	2461.6	1935.5
50°	2344.8	2373.4	2442.5	2567.4	2521.9	2508.6	2549.1	2483.7	2636.5	2632.8	2080.2
52.5°	1876.7	1946.5	2161.8	2385.9	2504.2	2541.0	2651.2	2642.4	2846.6	2852.5	2269.1
55°	1439.5	1465.9	1715.0	2096.4	2396.2	2530.7	2719.5	2797.4	3074.4	3081.8	2442.5
57.5°	1163.9	1181.6	1317.5	1715.0	2150.1	2474.8	2773.2	2887.8	3249.3	3268.4	2596.8
60°	922.2	947.9	1039.0	1312.4	1805.4	2340.4	2810.6	2988.5	3437.4	3466.1	2781.3
62.5°	685.6	698.1	784.0	972.2	1429.2	2098.6	2790.8	3098.0	3668.2	3702.7	3003.2
65°	487.9	498.9	559.9	691.5	1056.7	1771.6	2675.4	3179.5	3957.7	3993.0	3226.5
67.5°	365.2	369.6	404.1	483.5	712.0	1376.3	2441.8	3165.6	4169.3	4200.9	3316.2
70°	288.8	290.2	307.2	349.8	462.9	958.2	2032.5	2960.5	4184.7	4212.7	3203.0
72.5°	239.5	238.8	248.4	268.9	322.6	606.2	1505.6	2579.9	3986.3	4005.4	2887.1
75°	197.7	199.1	205.7	217.5	246.2	399.7	975.8	2058.2	3516.8	3496.2	2422.7
77.5°	166.1	165.3	168.3	178.6	199.1	287.3	571.7	1487.3	2606.4	2596.1	1590.1
80°	133.7	135.2	139.6	148.4	167.5	219.0	338.0	928.1	1398.3	1360.9	759.8
82.5°	89.6	103.6	112.4	122.7	144.8	161.7	214.6	471.7	625.3	615.8	344.6
85°	42.6	56.6	83.8	95.5	117.6	101.4	145.5	224.9	313.0	309.4	124.2
87.5°	8.8	8.8	44.8	53.6	72.7	43.4	80.8	97.7	151.4	141.8	50.7
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°	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8
2.5°	702.5	682.6	643.0	611.4	579.0	560.7	537.9	526.9	524.7	518.8	523.2
5°	715.0	676.0	601.1	551.8	518.8	502.6	494.5	491.6	490.9	489.4	489.4
7.5°	731.9	672.4	574.6	524.7	503.3	498.2	500.4	504.8	505.5	507.0	506.3
10°	752.4	673.1	559.9	518.0	507.8	508.5	515.8	521.7	524.7	526.9	526.1
12.5°	781.1	681.9	557.7	522.4	518.0	521.0	528.3	534.2	537.1	537.9	537.9
15°	818.6	700.3	562.9	532.0	528.3	530.5	534.9	537.1	537.9	537.1	537.1
17.5°	859.7	722.3	570.2	537.9	532.0	529.8	528.3	526.1	521.7	518.8	518.8
20°	899.4	742.2	573.9	537.1	526.9	518.0	509.2	498.2	490.9	485.0	485.0
22.5°	939.1	760.5	573.9	529.1	512.9	496.0	477.6	460.0	449.0	441.6	441.6
25°	981.0	778.2	569.5	515.1	490.9	466.6	441.6	419.6	408.6	401.2	399.7
27.5°	1016.2	788.4	557.7	495.3	463.7	432.8	404.1	381.4	373.3	366.7	366.7
30°	1053.7	795.1	535.7	469.5	432.8	397.5	368.1	349.8	341.0	331.4	330.7
32.5°	1095.6	799.5	510.7	442.4	401.2	363.7	338.7	324.1	304.9	294.7	293.2
35°	1144.1	805.4	484.2	411.5	369.6	335.8	321.1	296.9	278.5	269.7	268.9
37.5°	1195.5	809.8	455.6	384.3	341.0	317.4	302.7	274.1	257.9	244.7	243.2
40°	1249.9	809.8	426.2	357.9	318.2	309.4	281.4	255.7	228.5	221.9	220.4
42.5°	1310.2	808.3	396.8	332.1	296.9	291.0	268.9	241.8	227.8	221.9	220.4
45°	1374.1	803.1	368.9	302.7	274.8	263.1	246.2	238.8	232.9	232.9	232.9
47.5°	1446.8	798.7	337.3	276.3	258.7	245.4	232.9	228.5	227.8	230.0	232.2
50°	1540.2	797.3	310.8	257.2	246.2	230.7	229.3	225.6	226.3	226.3	226.3
52.5°	1653.3	784.0	285.8	243.2	233.7	215.3	219.7	223.4	224.9	224.1	223.4
55°	1736.4	760.5	264.5	233.7	224.9	209.4	215.3	221.2	222.6	220.4	220.4
57.5°	1811.3	727.5	247.6	226.3	219.0	205.7	212.4	218.2	216.8	216.0	215.3
60°	1897.3	695.9	234.4	222.6	213.1	204.3	210.2	213.8	211.6	210.2	209.4
62.5°	1990.6	665.0	224.9	222.6	208.7	203.5	208.0	209.4	205.0	203.5	203.5
65°	2034.0	616.5	214.6	222.6	206.5	202.1	203.5	202.1	197.7	197.7	196.9
67.5°	1962.7	536.4	201.3	219.7	209.4	199.9	196.9	194.7	189.6	189.6	188.1
70°	1765.7	440.9	182.2	210.2	210.2	199.1	188.1	183.0	177.1	179.3	176.4
72.5°	1508.6	349.8	158.7	194.0	205.7	198.4	178.6	170.5	165.3	167.5	163.1
75°	1222.0	271.1	130.8	168.3	194.7	194.7	169.0	158.0	152.1	152.1	147.0
77.5°	778.9	200.6	106.5	139.6	174.9	189.6	160.9	144.0	135.2	133.0	129.3
80°	385.8	141.1	87.4	111.0	149.2	177.8	155.0	127.9	115.4	111.0	104.3
82.5°	205.0	97.7	69.8	86.7	119.0	160.2	147.7	110.2	94.8	88.2	80.8
85°	91.9	60.3	55.8	66.1	90.4	131.5	133.0	90.4	72.7	86.7	63.9
87.5°	33.8	27.2	27.2	33.8	52.2	55.1	94.1	58.0	46.3	31.6	25.0
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)