

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: P397690

Luminaire Tested: **ARCH-S-PA1-30-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397690
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-PA1-30-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4331 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): 31
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

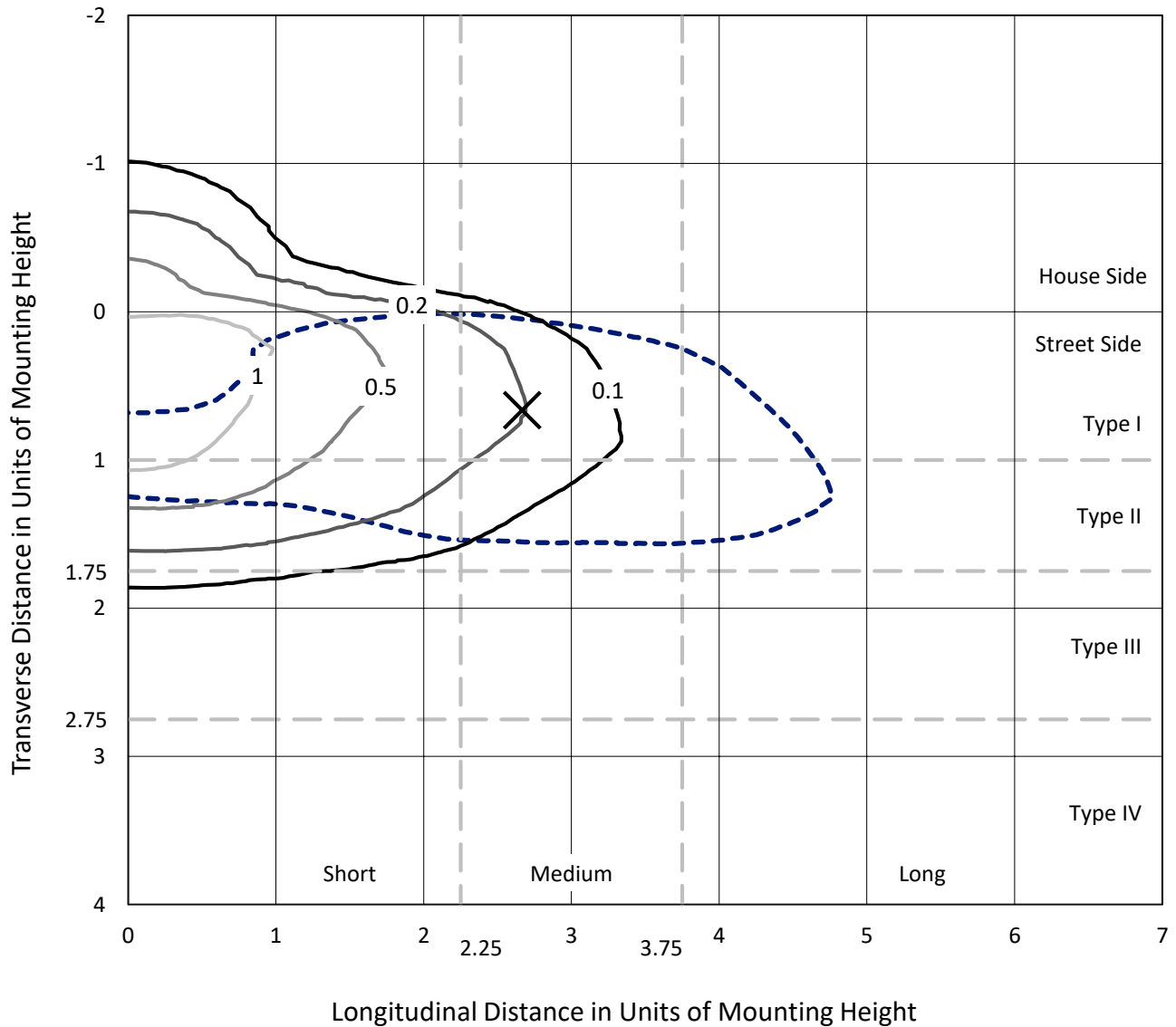


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

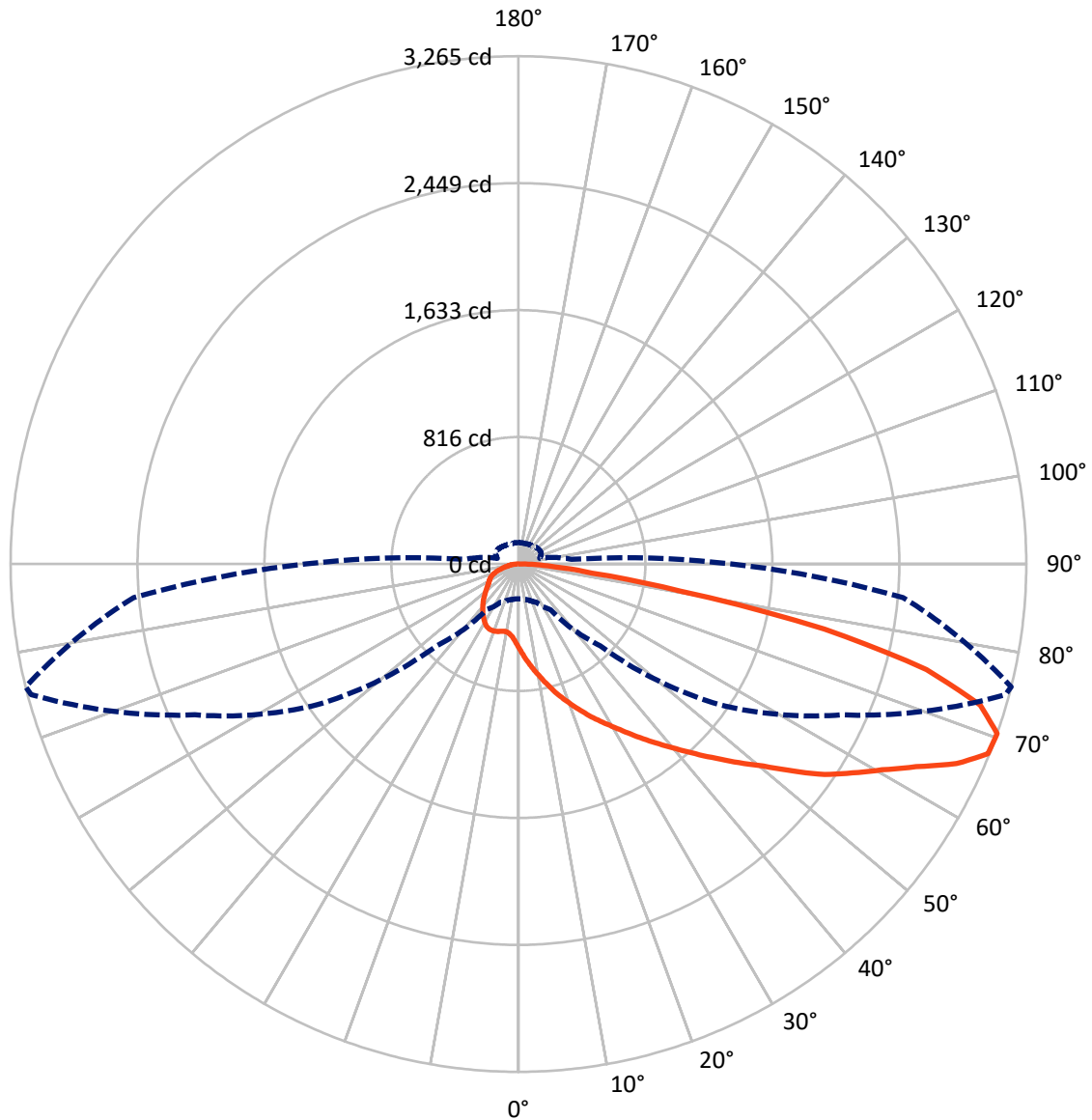


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - Non-Cutoff

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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	707.1	0.0	707.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3623.9	0.0	3623.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	4331.0	0.0	4331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	191.3	4.4
20°-30°	342.2	7.9
30°-40°	553.5	12.8
40°-50°	800.8	18.5
50°-60°	916.6	21.2
60°-70°	843.1	19.5
70°-80°	521.4	12.0
80°-90°	105.9	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°	4331.0	100.0
0°-180°	4331.0	100.0



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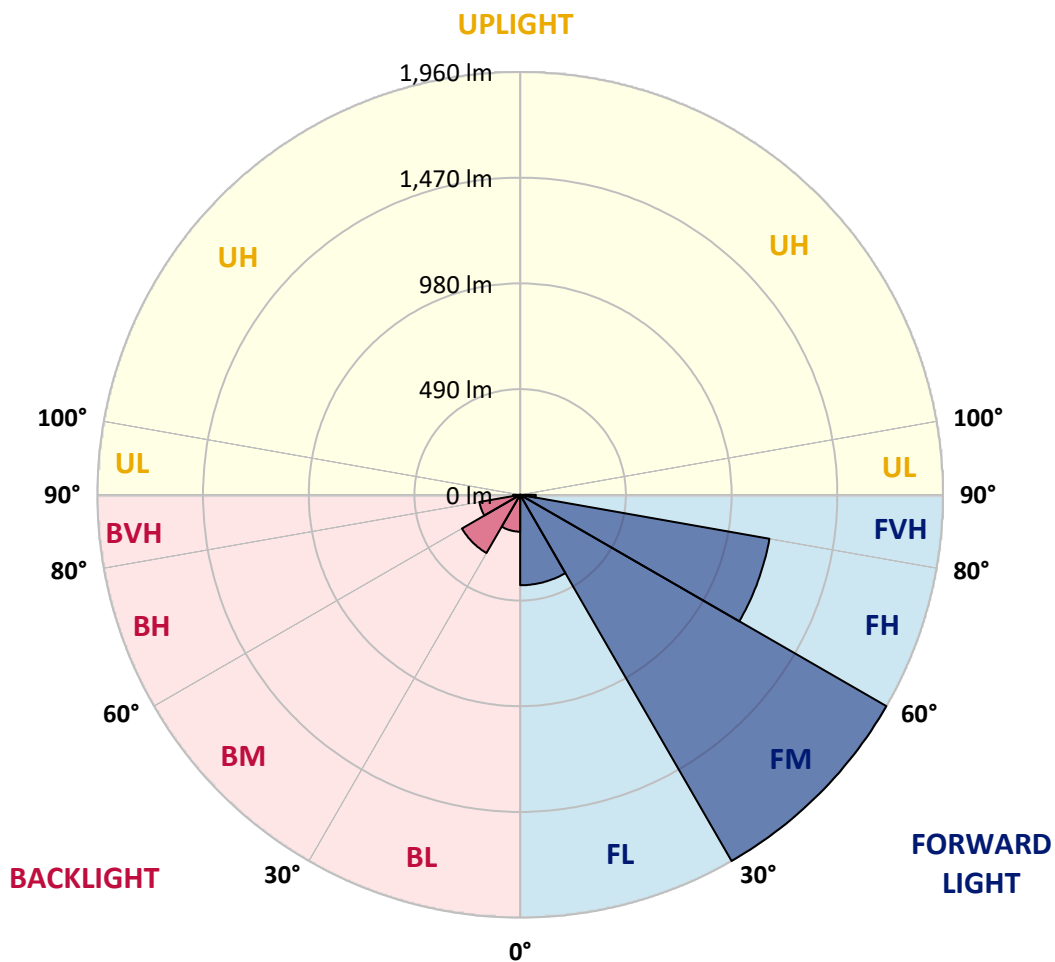
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.0	9.7			
FM (30°-60°)	1959.6	45.2			
FH (60°-80°)	1172.7	27.1			G1/1800
FVH (80°-90°)	72.7	1.7			G1/100
BL (0°-30°)	170.8	3.9	B1/500		
BM (30°-60°)	311.3	7.2	B1/1000		
BH (60°-80°)	191.8	4.4	B1/500		G1/500
BVH (80°-90°)	33.2	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°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	690.3	685.1	684.6	676.6	669.2	649.2	635.0	610.0	584.9	584.3	559.3
5°	797.9	792.8	789.9	780.2	767.7	741.5	715.9	677.2	634.4	631.6	584.3
7.5°	870.8	866.2	860.5	856.6	844.6	821.2	789.9	743.8	685.1	679.4	613.4
10°	919.8	916.9	915.8	912.9	905.5	886.7	856.6	807.6	735.8	729.6	644.1
12.5°	940.8	939.7	944.8	952.8	955.6	948.2	919.2	873.1	791.6	784.8	681.1
15°	916.4	917.5	930.6	957.9	987.0	1002.9	985.8	940.8	854.8	845.2	724.4
17.5°	905.0	906.7	915.8	942.0	983.0	1032.5	1040.5	1005.2	915.8	902.1	770.0
20°	924.9	927.2	934.0	954.5	983.0	1036.0	1077.5	1066.7	975.6	961.3	813.8
22.5°	975.6	978.4	977.9	991.0	1010.3	1046.8	1098.0	1124.8	1038.2	1022.3	859.4
25°	1083.8	1081.5	1062.1	1055.9	1061.0	1084.4	1125.4	1180.6	1103.7	1087.8	907.2
27.5°	1230.7	1227.9	1192.6	1160.7	1132.2	1142.4	1164.1	1225.6	1170.4	1152.1	952.8
30°	1387.9	1384.5	1343.5	1291.7	1228.4	1213.6	1210.8	1264.9	1237.6	1218.2	1001.2
32.5°	1541.1	1538.3	1494.4	1434.0	1346.9	1302.5	1275.1	1308.7	1313.9	1295.1	1054.2
35°	1680.6	1680.6	1643.1	1571.3	1472.8	1405.6	1360.6	1362.9	1401.6	1379.9	1114.5
37.5°	1804.8	1804.2	1763.2	1692.6	1598.1	1521.2	1465.4	1428.3	1485.3	1466.5	1177.8
40°	1903.3	1899.3	1869.2	1807.6	1712.5	1636.2	1579.8	1505.2	1578.7	1561.6	1245.0
42.5°	1975.1	1972.8	1952.3	1898.8	1808.2	1736.5	1697.7	1602.0	1684.6	1667.5	1323.6
45°	2003.0	2007.5	2007.5	1956.9	1885.1	1819.6	1802.5	1708.5	1799.1	1782.0	1407.8
47.5°	1958.0	1970.0	1994.4	1997.9	1934.6	1890.2	1895.9	1815.6	1917.0	1907.9	1500.1
50°	1817.3	1839.5	1893.1	1989.9	1954.6	1944.3	1975.7	1925.0	2043.4	2040.6	1612.3
52.5°	1454.5	1508.6	1675.5	1849.2	1940.9	1969.4	2054.8	2048.0	2206.3	2210.9	1758.7
55°	1115.7	1136.2	1329.3	1624.8	1857.2	1961.4	2107.8	2168.1	2382.9	2388.6	1893.1
57.5°	902.1	915.8	1021.1	1329.3	1666.4	1918.1	2149.4	2238.2	2518.4	2533.2	2012.7
60°	714.7	734.7	805.3	1017.2	1399.3	1813.9	2178.4	2316.2	2664.2	2686.4	2155.6
62.5°	531.4	541.0	607.7	753.5	1107.7	1626.5	2163.0	2401.1	2843.0	2869.8	2327.6
65°	378.2	386.7	434.0	535.9	819.0	1373.1	2073.6	2464.3	3067.4	3094.8	2500.7
67.5°	283.0	286.5	313.2	374.7	551.9	1066.7	1892.5	2453.5	3231.4	3255.9	2570.2
70°	223.8	225.0	238.1	271.1	358.8	742.6	1575.3	2294.6	3243.4	3265.0	2482.5
72.5°	185.7	185.1	192.5	208.4	250.0	469.9	1166.9	1999.6	3089.6	3104.4	2237.6
75°	153.2	154.3	159.5	168.6	190.8	309.8	756.3	1595.2	2725.7	2709.8	1877.7
77.5°	128.7	128.1	130.4	138.4	154.3	222.7	443.1	1152.7	2020.1	2012.1	1232.4
80°	103.7	104.8	108.2	115.0	129.8	169.7	262.0	719.3	1083.8	1054.7	588.9
82.5°	69.5	80.3	87.1	95.1	112.2	125.3	166.3	365.6	484.7	477.3	267.1
85°	33.0	43.9	64.9	74.0	91.1	78.6	112.8	174.3	242.6	239.8	96.2
87.5°	6.8	6.8	34.7	41.6	56.4	33.6	62.6	75.7	117.3	109.9	39.3
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°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	544.5	529.1	498.3	473.8	448.8	434.5	416.9	408.3	406.6	402.1	405.5
5°	554.1	524.0	465.9	427.7	402.1	389.5	383.3	381.0	380.4	379.3	379.3
7.5°	567.2	521.1	445.4	406.6	390.1	386.1	387.8	391.3	391.8	393.0	392.4
10°	583.2	521.7	434.0	401.5	393.5	394.1	399.8	404.4	406.6	408.3	407.8
12.5°	605.4	528.5	432.3	404.9	401.5	403.8	409.5	414.0	416.3	416.9	416.9
15°	634.4	542.7	436.2	412.3	409.5	411.2	414.6	416.3	416.9	416.3	416.3
17.5°	666.3	559.8	441.9	416.9	412.3	410.6	409.5	407.8	404.4	402.1	402.1
20°	697.1	575.2	444.8	416.3	408.3	401.5	394.7	386.1	380.4	375.9	375.9
22.5°	727.8	589.4	444.8	410.1	397.5	384.4	370.2	356.5	348.0	342.3	342.3
25°	760.3	603.1	441.4	399.2	380.4	361.6	342.3	325.2	316.7	311.0	309.8
27.5°	787.6	611.1	432.3	383.9	359.4	335.4	313.2	295.6	289.3	284.2	284.2
30°	816.7	616.2	415.2	363.9	335.4	308.1	285.3	271.1	264.3	256.9	256.3
32.5°	849.1	619.6	395.8	342.8	311.0	281.9	262.5	251.2	236.3	228.4	227.2
35°	886.7	624.2	375.3	318.9	286.5	260.3	248.9	230.1	215.8	209.0	208.4
37.5°	926.6	627.6	353.1	297.9	264.3	246.0	234.6	212.4	199.9	189.6	188.5
40°	968.7	627.6	330.3	277.4	246.6	239.8	218.1	198.2	177.1	172.0	170.9
42.5°	1015.4	626.5	307.5	257.4	230.1	225.5	208.4	187.4	176.6	172.0	170.9
45°	1065.0	622.5	285.9	234.6	213.0	203.9	190.8	185.1	180.5	180.5	180.5
47.5°	1121.4	619.1	261.4	214.1	200.5	190.2	180.5	177.1	176.6	178.3	180.0
50°	1193.7	617.9	240.9	199.3	190.8	178.8	177.7	174.8	175.4	175.4	175.4
52.5°	1281.4	607.7	221.5	188.5	181.1	166.9	170.3	173.1	174.3	173.7	173.1
55°	1345.8	589.4	205.0	181.1	174.3	162.3	166.9	171.4	172.6	170.9	170.9
57.5°	1403.9	563.8	191.9	175.4	169.7	159.5	164.6	169.1	168.0	167.4	166.9
60°	1470.5	539.3	181.7	172.6	165.2	158.3	162.9	165.7	164.0	162.9	162.3
62.5°	1542.8	515.4	174.3	172.6	161.7	157.8	161.2	162.3	158.9	157.8	157.8
65°	1576.4	477.8	166.3	172.6	160.0	156.6	157.8	156.6	153.2	153.2	152.6
67.5°	1521.2	415.7	156.0	170.3	162.3	154.9	152.6	150.9	146.9	146.9	145.8
70°	1368.5	341.7	141.2	162.9	162.9	154.3	145.8	141.8	137.3	139.0	136.7
72.5°	1169.2	271.1	123.0	150.4	159.5	153.8	138.4	132.1	128.1	129.8	126.4
75°	947.1	210.2	101.4	130.4	150.9	150.9	131.0	122.4	117.9	117.9	113.9
77.5°	603.7	155.5	82.6	108.2	135.5	146.9	124.7	111.6	104.8	103.1	100.2
80°	299.0	109.3	67.8	86.0	115.6	137.8	120.2	99.1	89.4	86.0	80.9
82.5°	158.9	75.7	54.1	67.2	92.3	124.2	114.5	85.4	73.5	68.3	62.6
85°	71.2	46.7	43.3	51.3	70.1	101.9	103.1	70.1	56.4	67.2	49.5
87.5°	26.2	21.1	21.1	26.2	40.4	42.7	72.9	45.0	35.9	24.5	19.4
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)