

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: P799858

Luminaire Tested: **ARCH2-60-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5533 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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: 24 FT

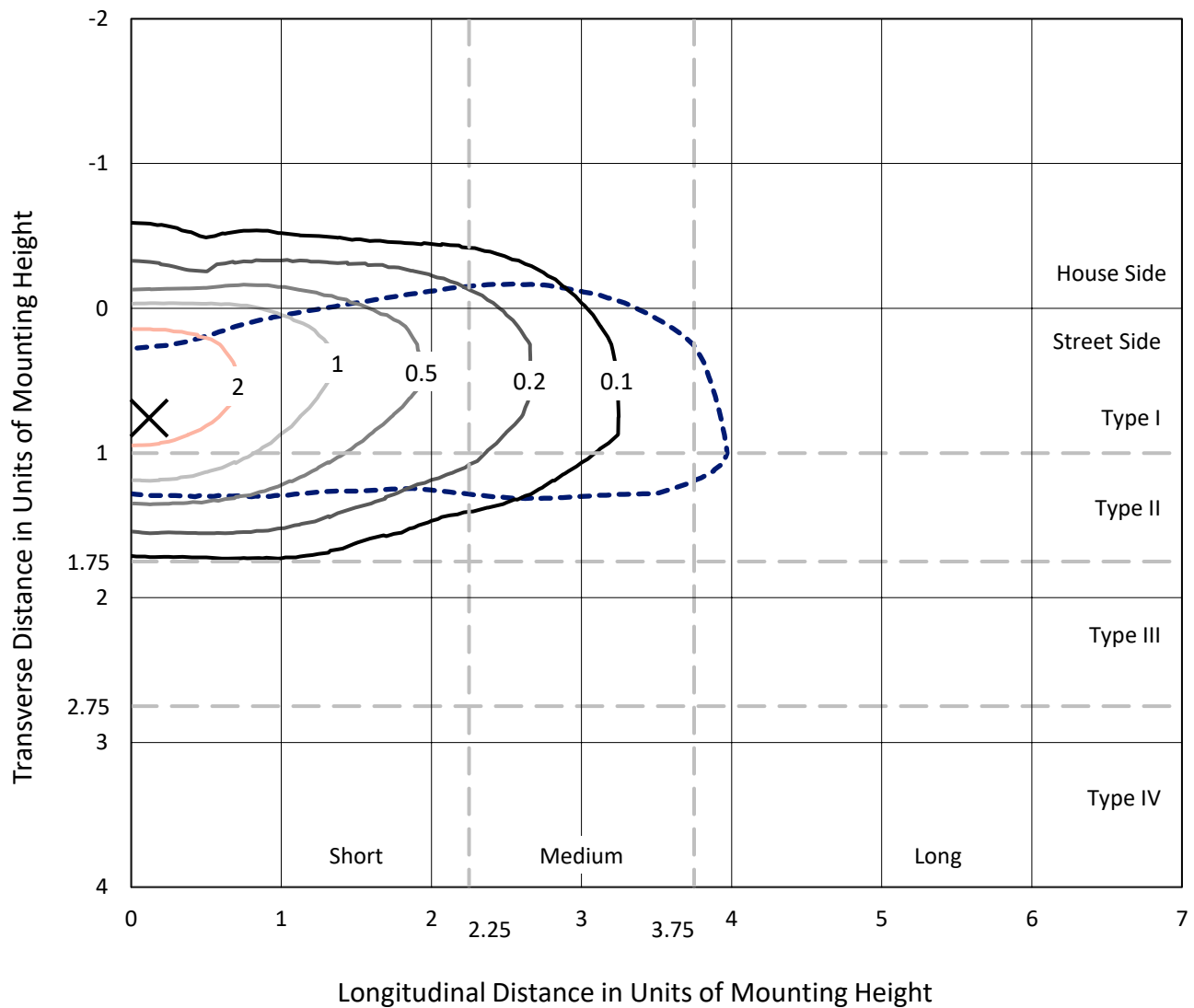


REPORT NUMBER: P799858

CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS

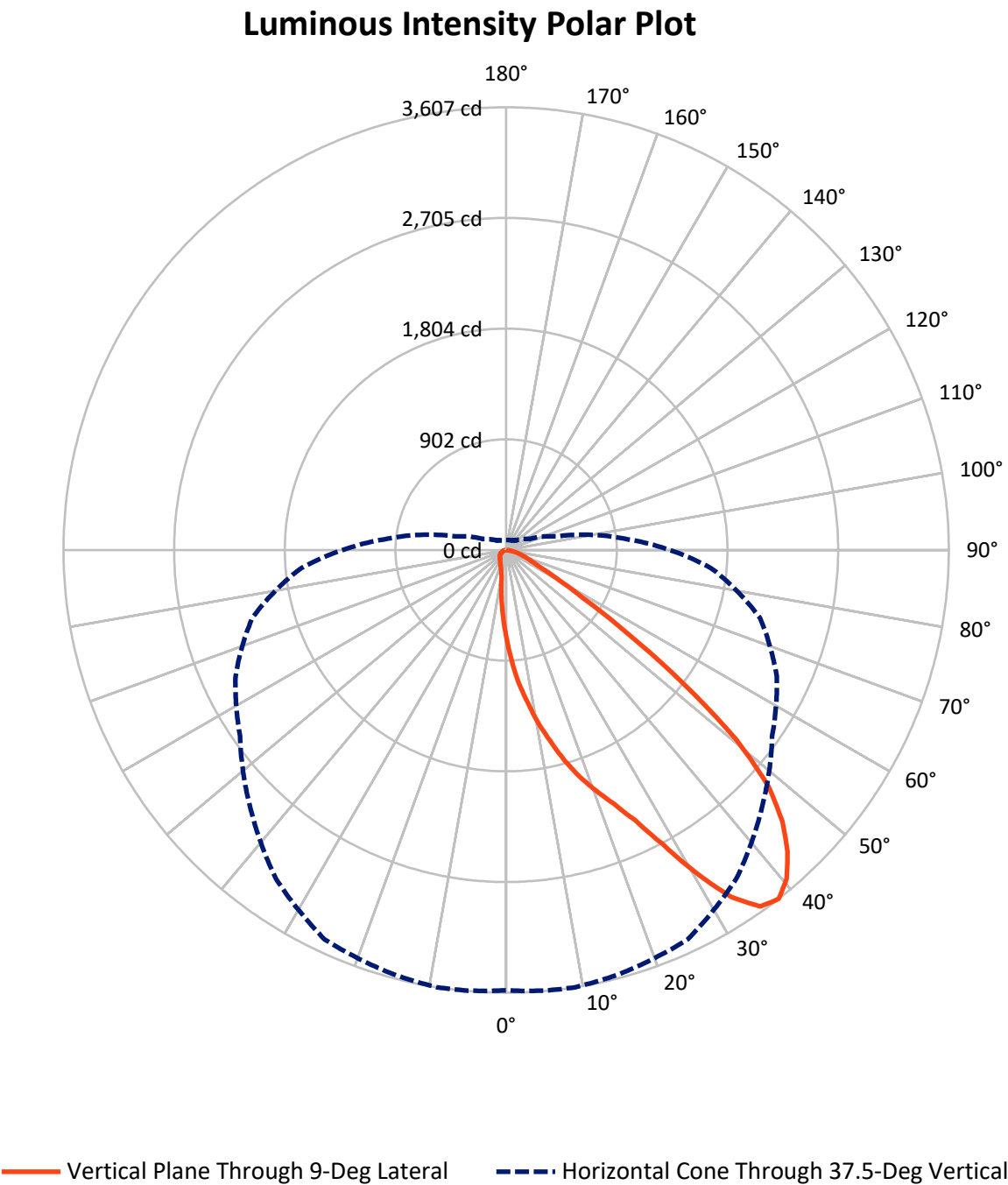
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - N/A

REPORT NUMBER: P799858
CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS



REPORT NUMBER: P799858

CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.9	0.0	672.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4860.1	0.0	4860.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	5533.0	0.0	5533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.3
10°-20°	255.5	4.6
20°-30°	525.0	9.5
30°-40°	928.0	16.8
40°-50°	1232.8	22.3
50°-60°	1169.2	21.1
60°-70°	892.0	16.1
70°-80°	432.5	7.8
80°-90°	24.3	0.4
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°	5533.0	100.0
0°-180°	5533.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799858

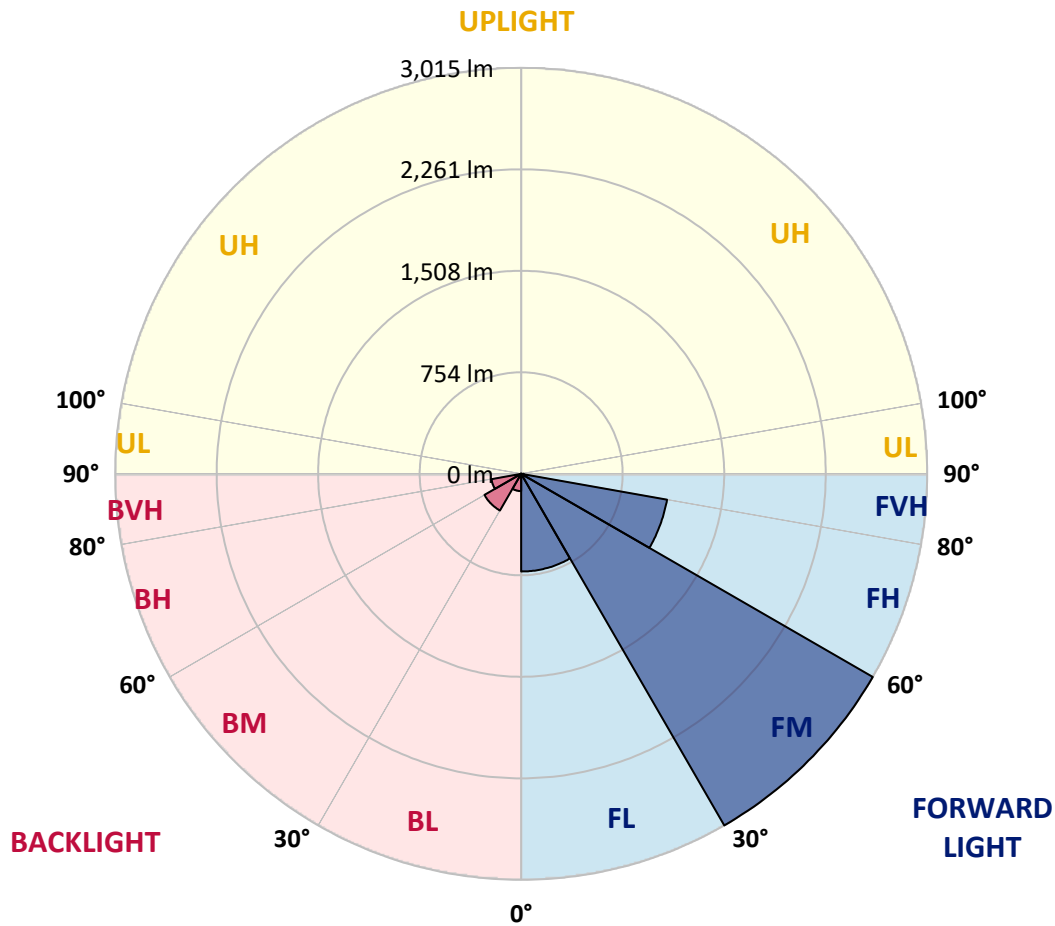
CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	725.7	13.1			
FM	(30°-60°)	3015.2	54.5			
FH	(60°-80°)	1099.9	19.9			G1/1800
FVH	(80°-90°)	19.3	0.3			G1/100
BL	(0°-30°)	128.4	2.3	B1/500		
BM	(30°-60°)	314.9	5.7	B1/1000		
BH	(60°-80°)	224.5	4.1	B1/500		G1/500
BVH	(80°-90°)	5.1	0.1			G0/10
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 Short



REPORT NUMBER: P799858

CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4
2.5°	906.3	890.4	908.6	906.3	890.4	880.2	848.4	838.2	800.7	773.4	749.6
5°	1092.6	1076.7	1092.6	1088.0	1065.3	1040.3	988.1	954.0	887.0	827.9	774.6
7.5°	1247.0	1247.0	1253.8	1255.0	1227.7	1189.1	1124.4	1073.2	979.0	888.1	802.9
10°	1414.0	1415.1	1429.9	1419.6	1383.3	1331.0	1249.3	1184.5	1071.0	951.7	830.2
12.5°	1592.3	1593.4	1597.9	1593.4	1550.2	1483.2	1384.4	1299.2	1168.6	1024.4	867.7
15°	1770.6	1771.7	1777.4	1769.4	1721.7	1643.4	1530.9	1426.4	1272.0	1106.2	913.1
17.5°	1937.5	1939.8	1944.3	1934.1	1884.1	1791.0	1676.3	1550.2	1382.2	1193.6	964.2
20°	2087.4	2089.7	2093.1	2079.5	2029.5	1936.4	1812.6	1680.8	1494.6	1283.3	1019.9
22.5°	2238.5	2240.8	2246.4	2228.3	2172.6	2065.9	1944.3	1808.0	1613.8	1382.2	1084.6
25°	2431.5	2433.8	2438.4	2412.2	2336.2	2211.2	2082.9	1943.2	1743.3	1493.5	1164.1
27.5°	2714.3	2712.1	2712.1	2664.4	2533.8	2371.4	2222.6	2080.6	1883.0	1612.7	1251.5
30°	3064.1	3058.5	3055.1	2990.3	2804.1	2551.9	2365.7	2209.0	2017.0	1738.8	1345.8
32.5°	3377.6	3377.6	3370.8	3302.6	3105.0	2795.0	2517.9	2333.9	2146.5	1866.0	1443.5
35°	3562.7	3570.7	3567.3	3516.2	3371.9	3056.2	2723.4	2483.8	2282.8	1998.8	1560.5
37.5°	3587.7	3603.6	3607.0	3576.3	3500.3	3269.7	2951.7	2646.2	2432.7	2141.9	1674.0
40°	3486.6	3520.7	3520.7	3516.2	3488.9	3370.8	3143.6	2834.7	2587.1	2290.7	1788.7
42.5°	3331.0	3366.2	3361.7	3378.7	3371.9	3346.9	3251.5	3010.8	2741.6	2444.0	1893.2
45°	3127.7	3164.1	3155.0	3185.7	3199.3	3226.5	3240.2	3133.4	2893.8	2611.0	2010.2
47.5°	2801.8	2863.1	2876.7	2931.3	2988.0	3073.2	3138.0	3177.7	3035.7	2790.4	2137.4
50°	2320.3	2406.6	2433.8	2548.5	2704.1	2880.2	2984.6	3123.2	3135.7	2974.4	2274.8
52.5°	1661.5	1761.5	1803.5	1992.0	2312.3	2618.9	2807.5	3002.8	3174.3	3150.5	2423.6
55°	1074.4	1159.6	1200.4	1377.6	1803.5	2285.0	2598.5	2847.2	3152.7	3311.7	2594.0
57.5°	662.1	711.0	738.2	890.4	1282.2	1856.9	2324.8	2704.1	3086.9	3451.4	2771.1
60°	446.3	474.7	488.4	559.9	871.1	1387.8	1948.9	2554.2	3000.5	3545.7	2932.4
62.5°	296.4	305.5	319.1	363.4	574.7	974.4	1496.9	2286.2	2935.8	3551.4	3051.6
65°	229.4	234.0	239.6	258.9	354.3	681.4	1052.8	1852.3	2839.3	3431.0	3089.1
67.5°	180.6	185.1	191.9	202.2	256.7	462.2	716.6	1357.2	2641.7	3242.4	3027.8
70°	142.0	145.4	149.9	159.0	199.9	335.0	473.6	901.8	2243.0	3063.0	2834.7
72.5°	112.4	115.8	120.4	129.5	162.4	245.3	324.8	562.2	1729.7	2843.8	2463.3
75°	88.6	90.9	94.3	103.3	130.6	190.8	220.3	336.2	1175.5	2442.9	1919.3
77.5°	44.3	54.5	62.5	71.5	95.4	131.7	146.5	186.3	496.3	1253.8	915.4
80°	26.1	31.8	34.1	39.7	62.5	79.5	79.5	75.0	156.7	481.5	373.6
82.5°	14.8	20.4	21.6	22.7	37.5	45.4	36.3	27.3	31.8	161.3	109.0
85°	4.5	6.8	7.9	9.1	12.5	13.6	12.5	11.4	9.1	15.9	10.2
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	2.3	2.3	3.4	3.4	3.4
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: P799858

CATALOG NUMBER: ARCH2-60-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4
2.5°	735.9	721.2	692.8	666.7	641.7	623.5	606.5	590.6	579.2	570.1	569.0
5°	746.2	716.6	662.1	611.0	564.4	525.8	492.9	466.8	447.5	433.8	432.7
7.5°	759.8	714.4	631.5	555.4	486.1	430.4	382.7	347.5	322.5	312.3	304.4
10°	771.1	712.1	600.8	499.7	408.9	338.4	281.7	246.4	228.3	221.5	218.1
12.5°	790.5	714.4	574.7	448.6	341.8	258.9	215.8	196.5	188.5	182.8	181.7
15°	818.8	724.6	549.7	398.6	273.7	209.0	184.0	171.5	163.5	162.4	161.3
17.5°	847.2	733.7	527.0	347.5	227.1	181.7	164.7	154.5	148.8	147.6	147.6
20°	880.2	745.0	502.0	298.7	194.2	163.5	149.9	142.0	135.1	134.0	134.0
22.5°	918.8	760.9	478.1	255.5	172.6	149.9	138.6	129.5	123.8	122.7	122.7
25°	971.0	784.8	458.8	223.7	157.9	138.6	128.3	120.4	115.8	113.6	113.6
27.5°	1029.0	817.7	445.2	204.4	147.6	129.5	119.2	112.4	107.9	105.6	105.6
30°	1093.7	854.1	436.1	196.5	142.0	121.5	112.4	105.6	99.9	98.8	98.8
32.5°	1165.2	896.1	430.4	197.6	140.8	115.8	105.6	98.8	94.3	92.0	92.0
35°	1244.7	942.6	427.0	204.4	143.1	111.3	99.9	93.1	88.6	86.3	86.3
37.5°	1333.3	997.2	427.0	211.2	148.8	110.2	94.3	87.4	84.0	81.8	81.8
40°	1416.2	1055.1	431.6	219.2	154.5	110.2	89.7	84.0	79.5	77.2	77.2
42.5°	1481.0	1088.0	435.0	227.1	157.9	109.0	85.2	79.5	76.1	73.8	73.8
45°	1554.8	1123.2	428.2	230.5	157.9	106.8	81.8	76.1	72.7	70.4	70.4
47.5°	1636.6	1166.4	427.0	232.8	154.5	102.2	78.4	72.7	70.4	68.1	68.1
50°	1719.5	1214.1	429.3	231.7	149.9	95.4	73.8	70.4	67.0	64.7	64.7
52.5°	1813.7	1264.0	433.8	229.4	139.7	87.4	70.4	67.0	63.6	61.3	60.2
55°	1918.2	1318.6	442.9	224.9	126.1	79.5	67.0	63.6	59.1	56.8	55.6
57.5°	2038.6	1385.6	453.1	215.8	111.3	72.7	63.6	59.1	52.2	48.8	47.7
60°	2153.3	1461.7	464.5	194.2	96.5	65.9	60.2	53.4	46.6	44.3	43.2
62.5°	2261.2	1536.6	470.2	155.6	81.8	60.2	56.8	48.8	42.0	39.7	38.6
65°	2330.5	1618.4	457.7	105.6	67.0	55.6	52.2	45.4	38.6	35.2	35.2
67.5°	2335.0	1657.0	414.5	69.3	54.5	50.0	47.7	40.9	34.1	31.8	30.7
70°	2220.3	1599.1	316.9	54.5	45.4	43.2	43.2	36.3	29.5	27.3	26.1
72.5°	1956.8	1416.2	202.2	44.3	38.6	36.3	36.3	30.7	26.1	22.7	21.6
75°	1544.6	1092.6	107.9	36.3	31.8	30.7	28.4	25.0	21.6	19.3	18.2
77.5°	709.8	481.5	50.0	26.1	23.8	23.8	21.6	18.2	17.0	14.8	14.8
80°	280.5	163.5	25.0	17.0	15.9	15.9	15.9	12.5	12.5	10.2	9.1
82.5°	77.2	34.1	12.5	10.2	10.2	10.2	9.1	7.9	7.9	6.8	6.8
85°	7.9	5.7	5.7	5.7	5.7	4.5	4.5	3.4	2.3	2.3	2.3
87.5°	3.4	3.4	3.4	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0
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)