

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: P397546

Luminaire Tested: **ARCH-S-PA1-100-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397546
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-PA1-100-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10791 lumens
Efficiency: N/A
Efficacy: 112.4 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 - G2

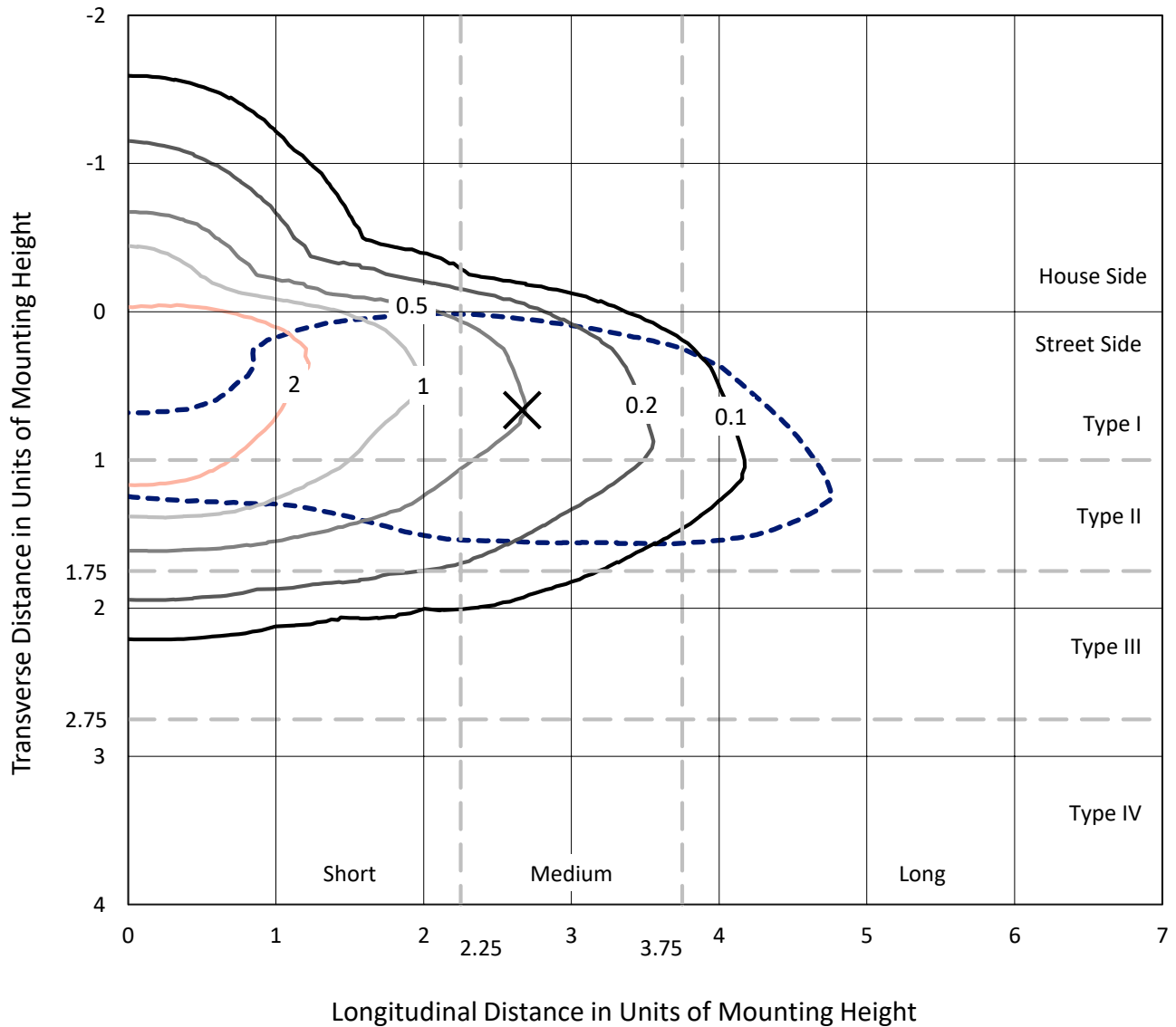
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397546
 CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

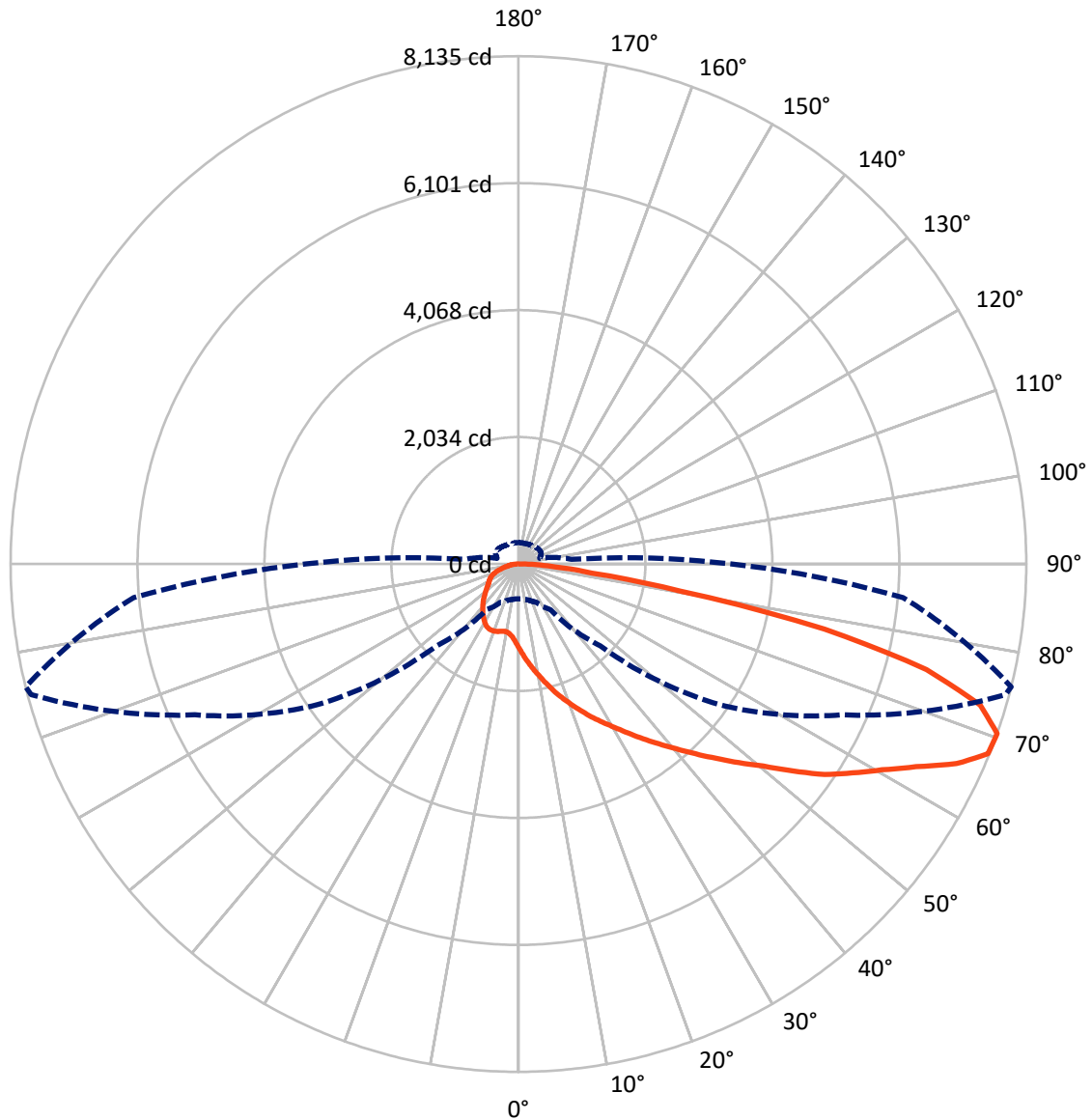
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P397546
CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P397546

CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.7	0.0	1761.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9029.3	0.0	9029.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	10791.0	0.0	10791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	1.3
10°-20°	476.5	4.4
20°-30°	852.6	7.9
30°-40°	1379.2	12.8
40°-50°	1995.2	18.5
50°-60°	2283.7	21.2
60°-70°	2100.7	19.5
70°-80°	1299.0	12.0
80°-90°	263.8	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°	10791.0	100.0
0°-180°	10791.0	100.0

Coefficient of Utilization



REPORT NUMBER: P397546

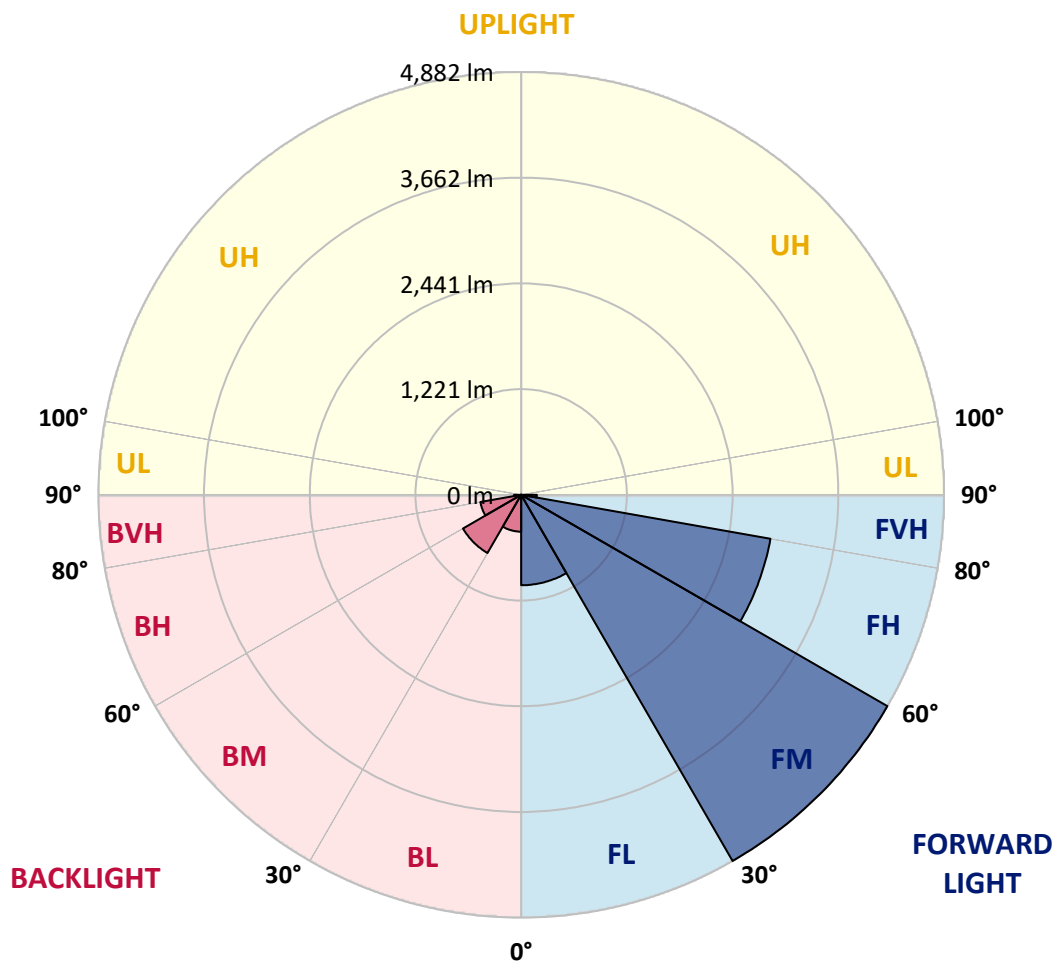
CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.8	9.7			
FM	(30°-60°)	4882.4	45.2			
FH	(60°-80°)	2921.9	27.1			G2/5000
FVH	(80°-90°)	181.1	1.7			G2/225
BL	(0°-30°)	425.5	3.9	B1/500		
BM	(30°-60°)	775.7	7.2	B1/1000		
BH	(60°-80°)	477.8	4.4	B1/500		G1/500
BVH	(80°-90°)	82.7	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 II Medium





REPORT NUMBER: P397546

CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1719.8	1707.0	1705.6	1685.8	1667.3	1617.7	1582.2	1519.7	1457.3	1455.9	1393.4
5°	1988.0	1975.2	1968.1	1944.0	1912.8	1847.5	1783.7	1687.2	1580.8	1573.7	1455.9
7.5°	2169.6	2158.3	2144.1	2134.2	2104.4	2046.2	1968.1	1853.2	1707.0	1692.9	1528.3
10°	2291.7	2284.6	2281.7	2274.6	2256.2	2209.4	2134.2	2012.1	1833.3	1817.7	1604.9
12.5°	2344.2	2341.3	2354.1	2374.0	2381.1	2362.6	2290.3	2175.3	1972.4	1955.4	1697.1
15°	2283.2	2286.0	2318.6	2386.7	2459.1	2498.8	2456.3	2344.2	2129.9	2105.8	1805.0
17.5°	2254.8	2259.0	2281.7	2347.0	2449.2	2572.6	2592.5	2504.5	2281.7	2247.7	1918.5
20°	2304.4	2310.1	2327.1	2378.2	2449.2	2581.1	2684.7	2657.8	2430.7	2395.3	2027.7
22.5°	2430.7	2437.8	2436.4	2469.0	2517.3	2608.1	2735.8	2802.5	2586.8	2547.1	2141.3
25°	2700.3	2694.7	2646.4	2630.8	2643.6	2701.8	2803.9	2941.6	2750.0	2710.3	2260.5
27.5°	3066.4	3059.3	2971.4	2891.9	2821.0	2846.5	2900.4	3053.7	2916.0	2870.6	2374.0
30°	3458.1	3449.6	3347.4	3218.3	3060.8	3023.9	3016.8	3151.6	3083.5	3035.2	2494.6
32.5°	3839.8	3832.7	3723.4	3573.0	3355.9	3245.2	3177.1	3260.8	3273.6	3226.8	2626.6
35°	4187.4	4187.4	4093.8	3915.0	3669.5	3502.1	3390.0	3395.6	3492.1	3438.2	2777.0
37.5°	4496.8	4495.4	4393.2	4217.2	3981.7	3790.1	3651.1	3558.8	3700.7	3653.9	2934.5
40°	4742.3	4732.3	4657.1	4503.9	4266.9	4076.8	3936.3	3750.4	3933.4	3890.9	3101.9
42.5°	4921.1	4915.4	4864.3	4730.9	4505.3	4326.5	4230.0	3991.6	4197.4	4154.8	3297.7
45°	4990.6	5001.9	5001.9	4875.7	4696.9	4533.7	4491.1	4257.0	4482.6	4440.0	3507.7
47.5°	4878.5	4908.3	4969.3	4977.8	4820.3	4709.6	4723.8	4523.7	4776.3	4753.6	3737.6
50°	4528.0	4583.3	4716.7	4958.0	4870.0	4844.4	4922.5	4796.2	5091.3	5084.2	4017.2
52.5°	3624.1	3758.9	4174.7	4607.5	4835.9	4906.9	5119.7	5102.7	5497.2	5508.5	4381.8
55°	2779.8	2830.9	3311.9	4048.4	4627.3	4887.0	5251.7	5402.1	5937.1	5951.2	4716.7
57.5°	2247.7	2281.7	2544.3	3311.9	4152.0	4779.2	5355.3	5576.6	6274.8	6311.7	5014.7
60°	1780.8	1830.5	2006.5	2534.3	3486.5	4519.5	5427.6	5771.0	6638.0	6693.4	5370.9
62.5°	1323.9	1348.0	1514.1	1877.3	2759.9	4052.6	5389.3	5982.5	7083.6	7150.3	5799.4
65°	942.2	963.5	1081.3	1335.3	2040.5	3421.2	5166.5	6140.0	7642.7	7710.8	6230.8
67.5°	705.2	713.8	780.4	933.7	1375.0	2657.8	4715.3	6113.0	8051.4	8112.4	6403.9
70°	557.7	560.5	593.1	675.4	894.0	1850.4	3924.9	5717.1	8081.2	8135.1	6185.4
72.5°	462.6	461.2	479.6	519.4	622.9	1170.7	2907.5	4982.1	7698.0	7734.9	5575.2
75°	381.7	384.5	397.3	420.0	475.4	771.9	1884.4	3974.6	6791.3	6751.6	4678.4
77.5°	320.7	319.3	324.9	344.8	384.5	554.8	1104.0	2872.0	5033.2	5013.3	3070.7
80°	258.3	261.1	269.6	286.6	323.5	422.9	652.7	1792.2	2700.3	2628.0	1467.2
82.5°	173.1	200.1	217.1	237.0	279.5	312.2	414.3	911.0	1207.6	1189.1	665.5
85°	82.3	109.3	161.8	184.5	227.0	195.8	281.0	434.2	604.5	597.4	239.8
87.5°	17.0	17.0	86.6	103.6	140.5	83.7	156.1	188.7	292.3	273.9	97.9
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: P397546

CATALOG NUMBER: ARCH-S-PA1-100-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1356.6	1318.2	1241.6	1180.6	1118.2	1082.7	1038.7	1017.4	1013.2	1001.8	1010.3
5°	1380.7	1305.5	1160.7	1065.7	1001.8	970.6	955.0	949.3	947.9	945.0	945.0
7.5°	1413.3	1298.4	1109.7	1013.2	972.0	962.1	966.3	974.8	976.3	979.1	977.7
10°	1453.0	1299.8	1081.3	1000.4	980.5	981.9	996.1	1007.5	1013.2	1017.4	1016.0
12.5°	1508.4	1316.8	1077.0	1008.9	1000.4	1006.1	1020.3	1031.6	1037.3	1038.7	1038.7
15°	1580.8	1352.3	1086.9	1027.3	1020.3	1024.5	1033.0	1037.3	1038.7	1037.3	1037.3
17.5°	1660.2	1394.9	1101.1	1038.7	1027.3	1023.1	1020.3	1016.0	1007.5	1001.8	1001.8
20°	1736.8	1433.2	1108.2	1037.3	1017.4	1000.4	983.4	962.1	947.9	936.5	936.5
22.5°	1813.5	1468.7	1108.2	1021.7	990.5	957.8	922.3	888.3	867.0	852.8	852.8
25°	1894.4	1502.7	1099.7	994.7	947.9	901.1	852.8	810.2	789.0	774.8	771.9
27.5°	1962.5	1522.6	1077.0	956.4	895.4	835.8	780.4	736.5	720.8	708.1	708.1
30°	2034.8	1535.3	1034.4	906.7	835.8	767.7	710.9	675.4	658.4	640.0	638.5
32.5°	2115.7	1543.9	986.2	854.2	774.8	702.4	654.2	625.8	588.9	569.0	566.2
35°	2209.4	1555.2	935.1	794.6	713.8	648.5	620.1	573.3	537.8	520.8	519.4
37.5°	2308.7	1563.7	879.8	742.1	658.4	613.0	584.6	529.3	498.1	472.5	469.7
40°	2413.7	1563.7	823.0	691.0	614.4	597.4	543.5	493.8	441.3	428.5	425.7
42.5°	2530.1	1560.9	766.3	641.4	573.3	561.9	519.4	466.8	439.9	428.5	425.7
45°	2653.5	1551.0	712.3	584.6	530.7	508.0	475.4	461.2	449.8	449.8	449.8
47.5°	2794.0	1542.4	651.3	533.5	499.5	473.9	449.8	441.3	439.9	444.1	448.4
50°	2974.2	1539.6	600.2	496.6	475.4	445.6	442.7	435.6	437.0	437.0	437.0
52.5°	3192.7	1514.1	552.0	469.7	451.2	415.8	424.3	431.4	434.2	432.8	431.4
55°	3353.1	1468.7	510.8	451.2	434.2	404.4	415.8	427.1	430.0	425.7	425.7
57.5°	3497.8	1404.8	478.2	437.0	422.9	397.3	410.1	421.4	418.6	417.2	415.8
60°	3663.8	1343.8	452.7	430.0	411.5	394.5	405.8	412.9	408.7	405.8	404.4
62.5°	3844.0	1284.2	434.2	430.0	403.0	393.1	401.6	404.4	395.9	393.1	393.1
65°	3927.8	1190.5	414.3	430.0	398.7	390.2	393.1	390.2	381.7	381.7	380.3
67.5°	3790.1	1035.9	388.8	424.3	404.4	386.0	380.3	376.0	366.1	366.1	363.3
70°	3409.8	851.4	351.9	405.8	405.8	384.5	363.3	353.3	342.0	346.2	340.6
72.5°	2913.2	675.4	306.5	374.6	397.3	383.1	344.8	329.2	319.3	323.5	315.0
75°	2359.8	523.6	252.6	324.9	376.0	376.0	326.4	305.1	293.7	293.7	283.8
77.5°	1504.1	387.4	205.8	269.6	337.7	366.1	310.8	278.1	261.1	256.8	249.7
80°	745.0	272.4	168.9	214.3	288.1	343.4	299.4	246.9	222.8	214.3	201.5
82.5°	395.9	188.7	134.8	167.4	229.9	309.3	285.2	212.8	183.0	170.3	156.1
85°	177.4	116.4	107.8	127.7	174.5	254.0	256.8	174.5	140.5	167.4	123.5
87.5°	65.3	52.5	52.5	65.3	100.7	106.4	181.6	112.1	89.4	61.0	48.2
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)