

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: P397897

Luminaire Tested: **ARCH-S-PA1-60-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397897
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-PA1-60-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7595 lumens
Efficiency: N/A
Efficacy: 118.7 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 - G2

Input Watts (W): 64
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

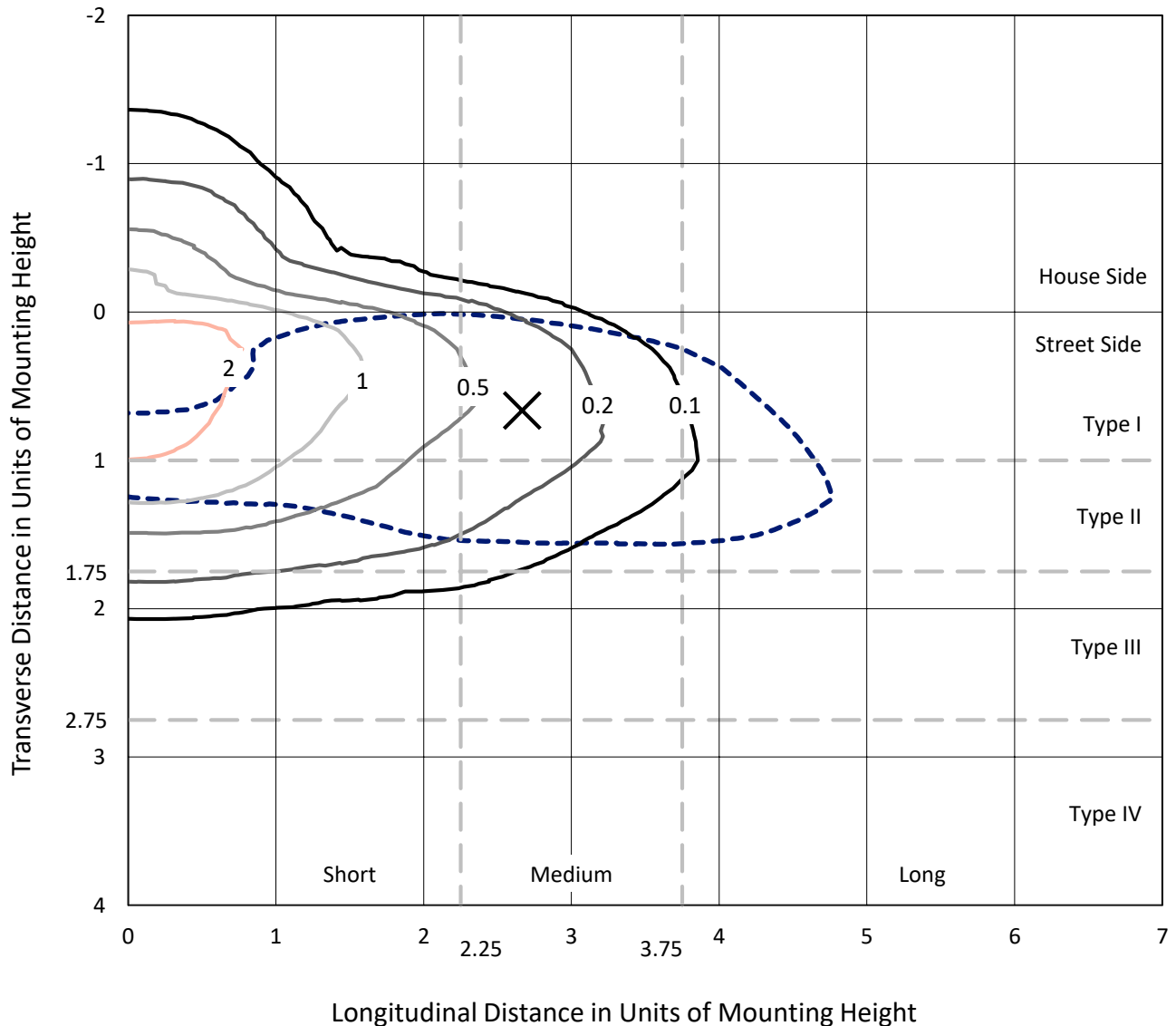


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Iso-Footcandle Lines of Horizontal Illumination

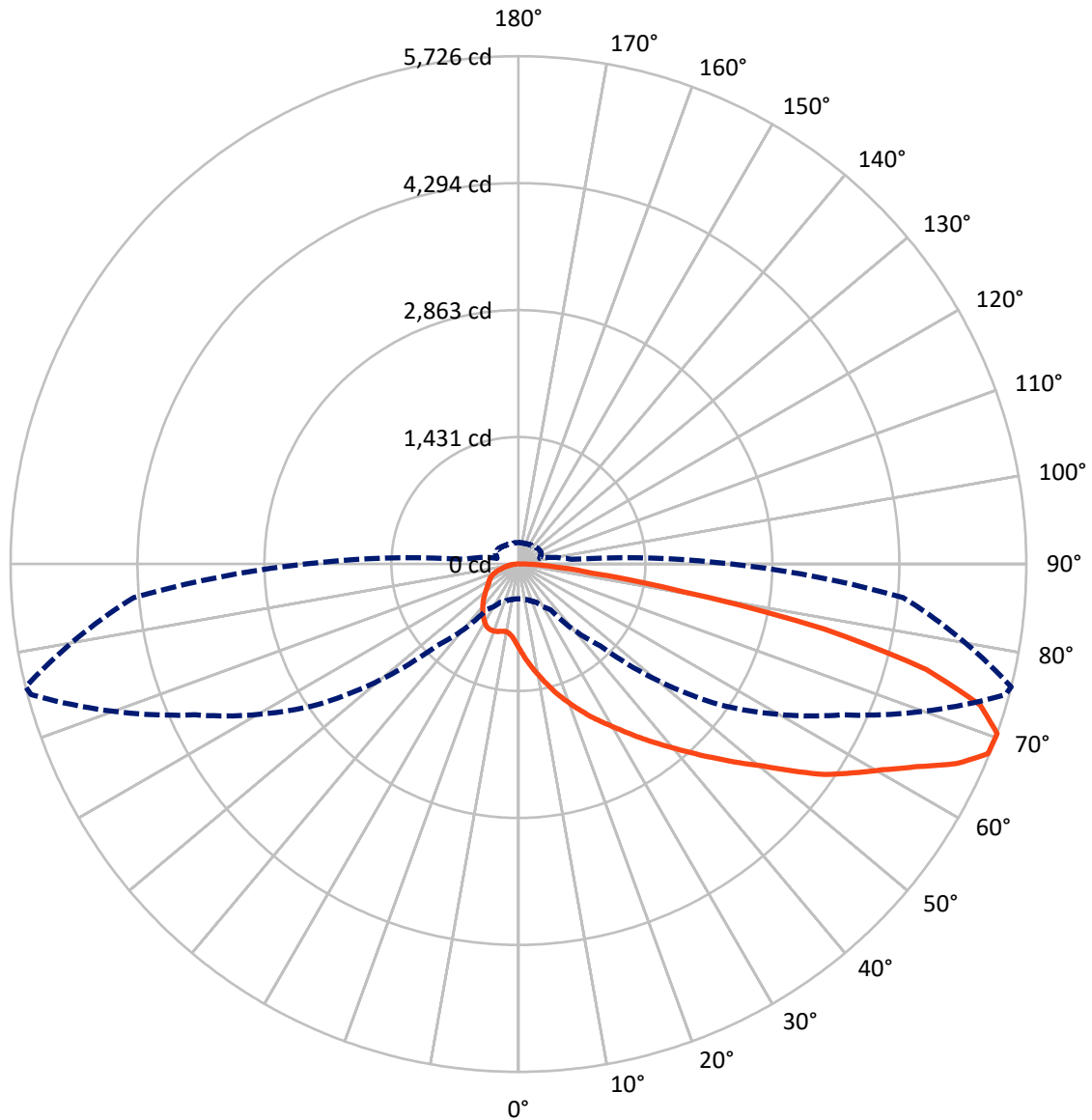
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1239.9	0.0	1239.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6355.0	0.0	6355.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	7595.0	0.0	7595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	1.3
10°-20°	335.4	4.4
20°-30°	600.1	7.9
30°-40°	970.7	12.8
40°-50°	1404.3	18.5
50°-60°	1607.3	21.2
60°-70°	1478.5	19.5
70°-80°	914.3	12.0
80°-90°	185.7	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°	7595.0	100.0
0°-180°	7595.0	100.0

Coefficient of Utilization



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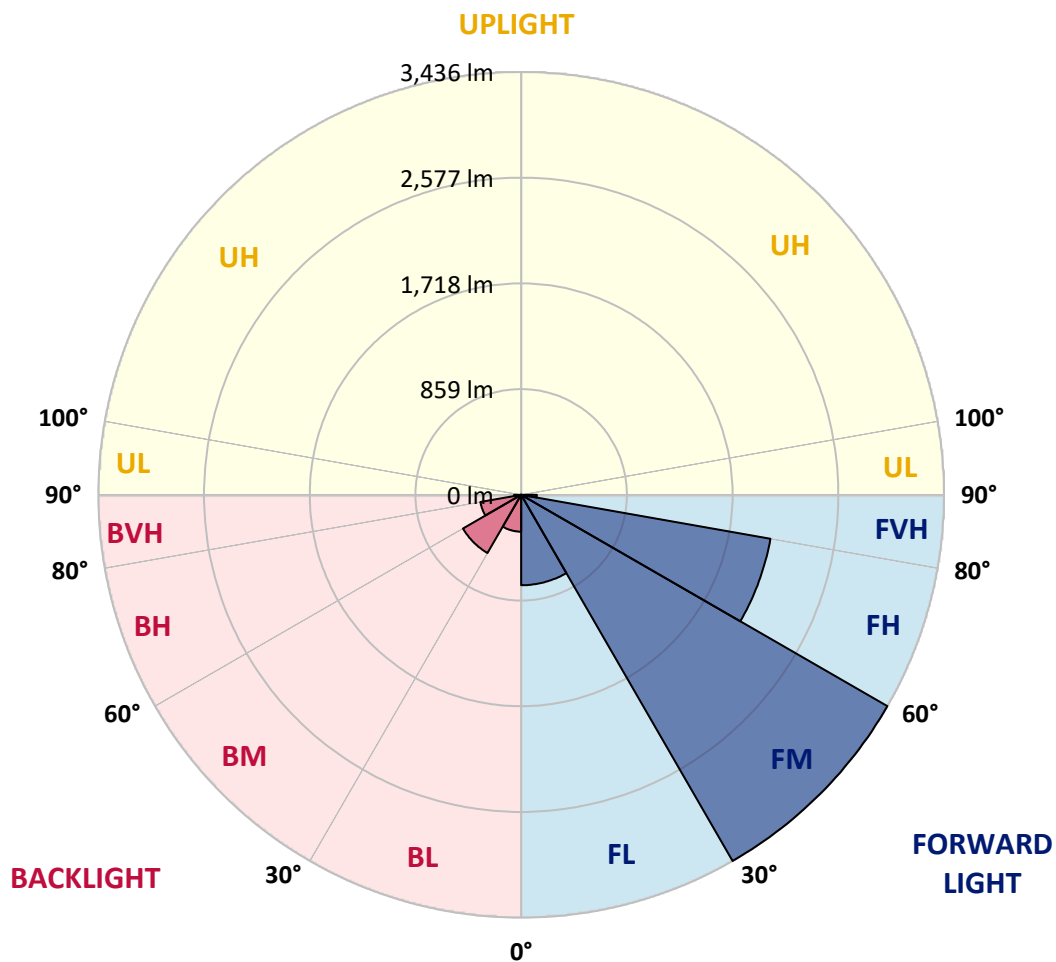
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.7	9.7			
FM	(30°-60°)	3436.4	45.2			
FH	(60°-80°)	2056.5	27.1			G2/5000
FVH	(80°-90°)	127.5	1.7			G2/225
BL	(0°-30°)	299.5	3.9	B1/500		
BM	(30°-60°)	545.9	7.2	B1/1000		
BH	(60°-80°)	336.3	4.4	B1/500		G1/500
BVH	(80°-90°)	58.2	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8
2.5°	1210.5	1201.5	1200.5	1186.5	1173.5	1138.5	1113.6	1069.6	1025.7	1024.7	980.7
5°	1399.2	1390.2	1385.2	1368.3	1346.3	1300.3	1255.4	1187.5	1112.6	1107.6	1024.7
7.5°	1527.1	1519.1	1509.1	1502.1	1481.1	1440.2	1385.2	1304.3	1201.5	1191.5	1075.6
10°	1612.9	1607.9	1605.9	1601.0	1588.0	1555.0	1502.1	1416.2	1290.4	1279.4	1129.6
12.5°	1649.9	1647.9	1656.9	1670.9	1675.9	1662.9	1611.9	1531.0	1388.2	1376.2	1194.5
15°	1606.9	1608.9	1631.9	1679.9	1730.8	1758.8	1728.8	1649.9	1499.1	1482.1	1270.4
17.5°	1587.0	1590.0	1605.9	1651.9	1723.8	1810.7	1824.7	1762.7	1605.9	1582.0	1350.3
20°	1621.9	1625.9	1637.9	1673.9	1723.8	1816.7	1889.6	1870.6	1710.8	1685.8	1427.2
22.5°	1710.8	1715.8	1714.8	1737.8	1771.7	1835.7	1925.5	1972.5	1820.7	1792.7	1507.1
25°	1900.6	1896.6	1862.6	1851.6	1860.6	1901.6	1973.5	2070.4	1935.5	1907.6	1591.0
27.5°	2158.2	2153.3	2091.3	2035.4	1985.5	2003.4	2041.4	2149.3	2052.4	2020.4	1670.9
30°	2433.9	2427.9	2356.0	2265.1	2154.2	2128.3	2123.3	2218.2	2170.2	2136.3	1755.8
32.5°	2702.5	2697.6	2620.7	2514.8	2362.0	2284.1	2236.1	2295.1	2304.1	2271.1	1848.6
35°	2947.2	2947.2	2881.3	2755.5	2582.7	2464.9	2386.0	2389.9	2457.9	2419.9	1954.5
37.5°	3165.0	3164.0	3092.1	2968.2	2802.4	2667.6	2569.7	2504.8	2604.7	2571.7	2065.4
40°	3337.7	3330.7	3277.8	3170.0	3003.2	2869.3	2770.5	2639.6	2768.5	2738.5	2183.2
42.5°	3463.6	3459.6	3423.6	3329.7	3171.0	3045.1	2977.2	2809.4	2954.2	2924.3	2321.0
45°	3512.5	3520.5	3520.5	3431.6	3305.8	3190.9	3161.0	2996.2	3155.0	3125.0	2468.8
47.5°	3433.6	3454.6	3497.5	3503.5	3392.7	3314.8	3324.8	3183.9	3361.7	3345.7	2630.6
50°	3186.9	3225.9	3319.8	3489.5	3427.6	3409.6	3464.6	3375.7	3583.4	3578.4	2827.4
52.5°	2550.7	2645.6	2938.2	3242.9	3403.7	3453.6	3603.4	3591.4	3869.1	3877.0	3084.1
55°	1956.5	1992.5	2331.0	2849.4	3256.8	3439.6	3696.3	3802.1	4178.7	4188.7	3319.8
57.5°	1582.0	1605.9	1790.7	2331.0	2922.3	3363.7	3769.2	3925.0	4416.4	4442.3	3529.5
60°	1253.4	1288.4	1412.2	1783.7	2453.9	3180.9	3820.1	4061.8	4672.0	4711.0	3780.2
62.5°	931.8	948.8	1065.6	1321.3	1942.5	2852.4	3793.2	4210.6	4985.6	5032.6	4081.8
65°	663.2	678.1	761.0	939.8	1436.2	2407.9	3636.4	4321.5	5379.1	5427.1	4385.4
67.5°	496.4	502.4	549.3	657.2	967.8	1870.6	3318.8	4302.5	5666.8	5709.7	4507.2
70°	392.5	394.5	417.5	475.4	629.2	1302.3	2762.5	4023.9	5687.7	5725.7	4353.4
72.5°	325.6	324.6	337.6	365.5	438.4	823.9	2046.4	3506.5	5418.1	5444.0	3924.0
75°	268.7	270.7	279.6	295.6	334.6	543.3	1326.3	2797.4	4779.9	4751.9	3292.8
77.5°	225.7	224.7	228.7	242.7	270.7	390.5	777.0	2021.4	3542.5	3528.5	2161.2
80°	181.8	183.8	189.8	201.7	227.7	297.6	459.4	1261.4	1900.6	1849.6	1032.7
82.5°	121.8	140.8	152.8	166.8	196.7	219.7	291.6	641.2	849.9	836.9	468.4
85°	57.9	76.9	113.9	129.8	159.8	137.8	197.7	305.6	425.5	420.5	168.8
87.5°	12.0	12.0	60.9	72.9	98.9	58.9	109.9	132.8	205.7	192.8	68.9
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°	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8	949.8
2.5°	954.8	927.8	873.9	830.9	787.0	762.0	731.1	716.1	713.1	705.1	711.1
5°	971.8	918.8	817.0	750.0	705.1	683.1	672.1	668.1	667.1	665.2	665.2
7.5°	994.7	913.8	781.0	713.1	684.1	677.1	680.1	686.1	687.1	689.1	688.1
10°	1022.7	914.8	761.0	704.1	690.1	691.1	701.1	709.1	713.1	716.1	715.1
12.5°	1061.6	926.8	758.0	710.1	704.1	708.1	718.1	726.1	730.1	731.1	731.1
15°	1112.6	951.8	765.0	723.1	718.1	721.1	727.1	730.1	731.1	730.1	730.1
17.5°	1168.5	981.7	775.0	731.1	723.1	720.1	718.1	715.1	709.1	705.1	705.1
20°	1222.4	1008.7	780.0	730.1	716.1	704.1	692.1	677.1	667.1	659.2	659.2
22.5°	1276.4	1033.7	780.0	719.1	697.1	674.1	649.2	625.2	610.2	600.2	600.2
25°	1333.3	1057.6	774.0	700.1	667.1	634.2	600.2	570.3	555.3	545.3	543.3
27.5°	1381.2	1071.6	758.0	673.1	630.2	588.2	549.3	518.3	507.4	498.4	498.4
30°	1432.2	1080.6	728.1	638.2	588.2	540.3	500.4	475.4	463.4	450.4	449.4
32.5°	1489.1	1086.6	694.1	601.2	545.3	494.4	460.4	440.4	414.5	400.5	398.5
35°	1555.0	1094.6	658.2	559.3	502.4	456.4	436.4	403.5	378.5	366.5	365.5
37.5°	1624.9	1100.6	619.2	522.3	463.4	431.4	411.5	372.5	350.6	332.6	330.6
40°	1698.8	1100.6	579.3	486.4	432.4	420.5	382.5	347.6	310.6	301.6	299.6
42.5°	1780.7	1098.6	539.3	451.4	403.5	395.5	365.5	328.6	309.6	301.6	299.6
45°	1867.6	1091.6	501.4	411.5	373.5	357.5	334.6	324.6	316.6	316.6	316.6
47.5°	1966.5	1085.6	458.4	375.5	351.6	333.6	316.6	310.6	309.6	312.6	315.6
50°	2093.3	1083.6	422.5	349.6	334.6	313.6	311.6	306.6	307.6	307.6	307.6
52.5°	2247.1	1065.6	388.5	330.6	317.6	292.6	298.6	303.6	305.6	304.6	303.6
55°	2360.0	1033.7	359.5	317.6	305.6	284.6	292.6	300.6	302.6	299.6	299.6
57.5°	2461.9	988.7	336.6	307.6	297.6	279.6	288.6	296.6	294.6	293.6	292.6
60°	2578.7	945.8	318.6	302.6	289.6	277.6	285.6	290.6	287.6	285.6	284.6
62.5°	2705.5	903.8	305.6	302.6	283.6	276.6	282.6	284.6	278.6	276.6	276.6
65°	2764.5	837.9	291.6	302.6	280.6	274.6	276.6	274.6	268.7	268.7	267.7
67.5°	2667.6	729.1	273.7	298.6	284.6	271.7	267.7	264.7	257.7	257.7	255.7
70°	2399.9	599.2	247.7	285.6	285.6	270.7	255.7	248.7	240.7	243.7	239.7
72.5°	2050.4	475.4	215.7	263.7	279.6	269.7	242.7	231.7	224.7	227.7	221.7
75°	1660.9	368.5	177.8	228.7	264.7	264.7	229.7	214.7	206.7	206.7	199.7
77.5°	1058.6	272.7	144.8	189.8	237.7	257.7	218.7	195.8	183.8	180.8	175.8
80°	524.3	191.8	118.8	150.8	202.7	241.7	210.7	173.8	156.8	150.8	141.8
82.5°	278.6	132.8	94.9	117.8	161.8	217.7	200.7	149.8	128.8	119.8	109.9
85°	124.8	81.9	75.9	89.9	122.8	178.8	180.8	122.8	98.9	117.8	86.9
87.5°	45.9	37.0	37.0	45.9	70.9	74.9	127.8	78.9	62.9	42.9	34.0
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)