

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: P573054

Luminaire Tested: **ARCH-S-PA2-30-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4388 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

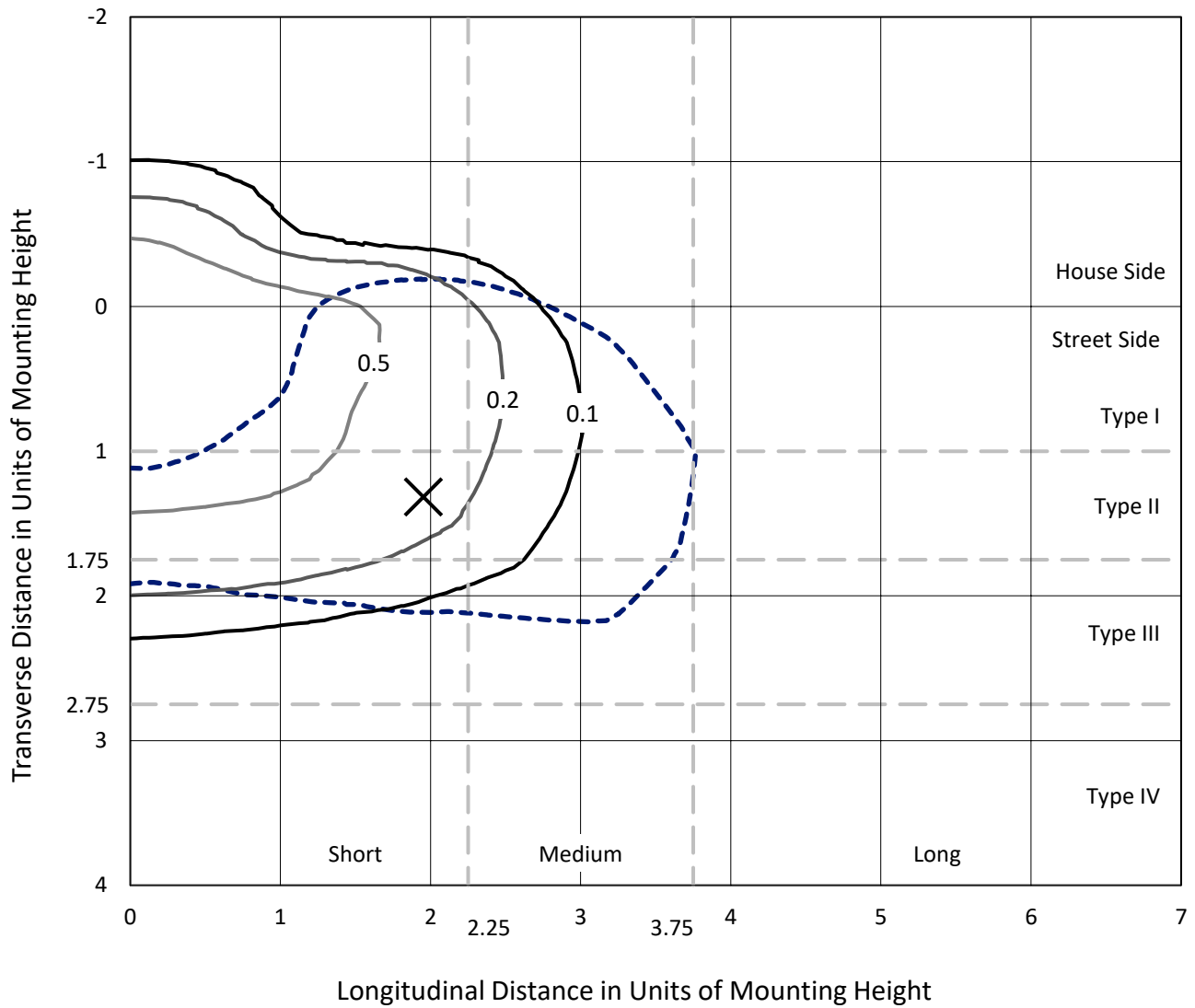
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

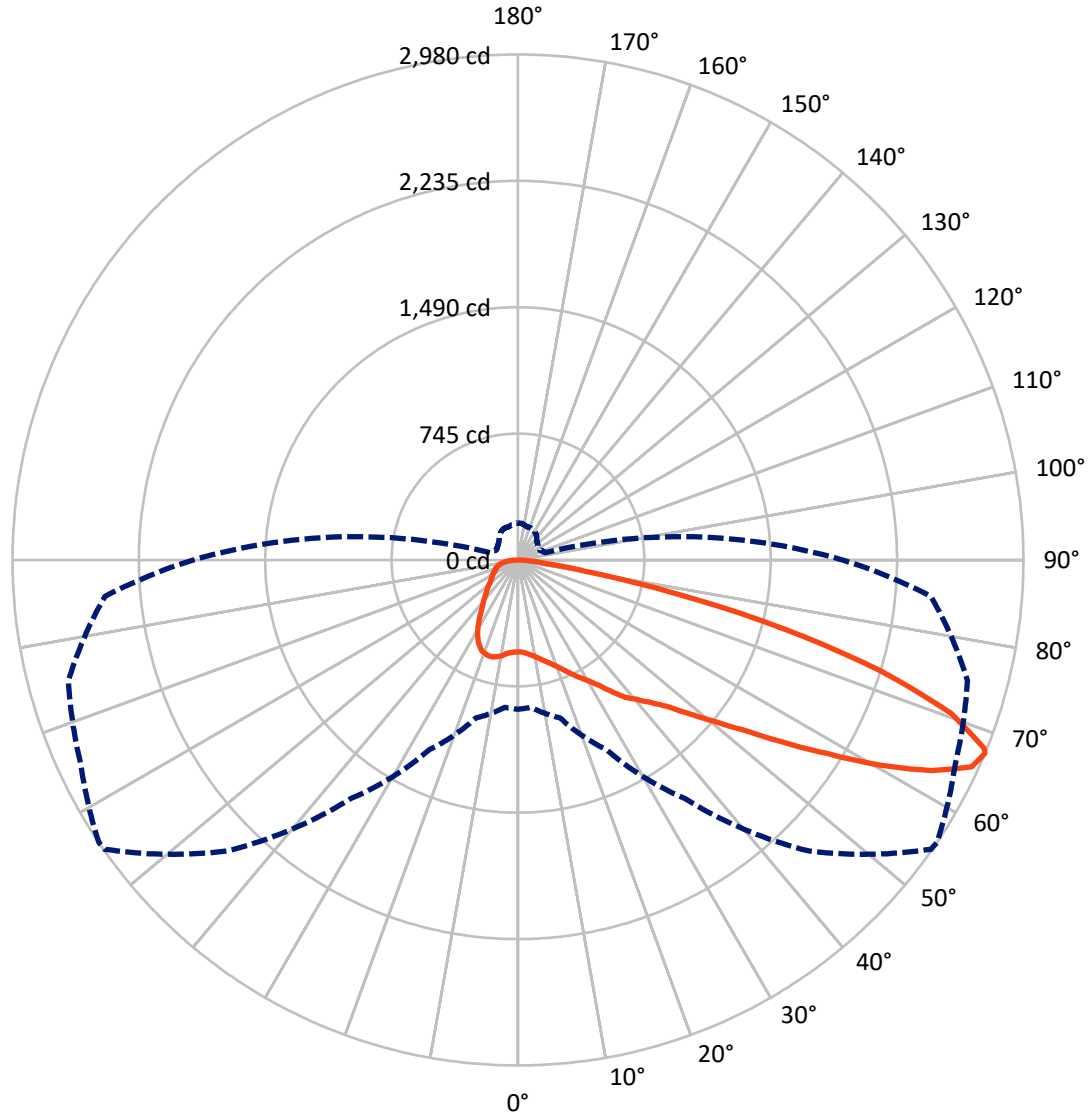
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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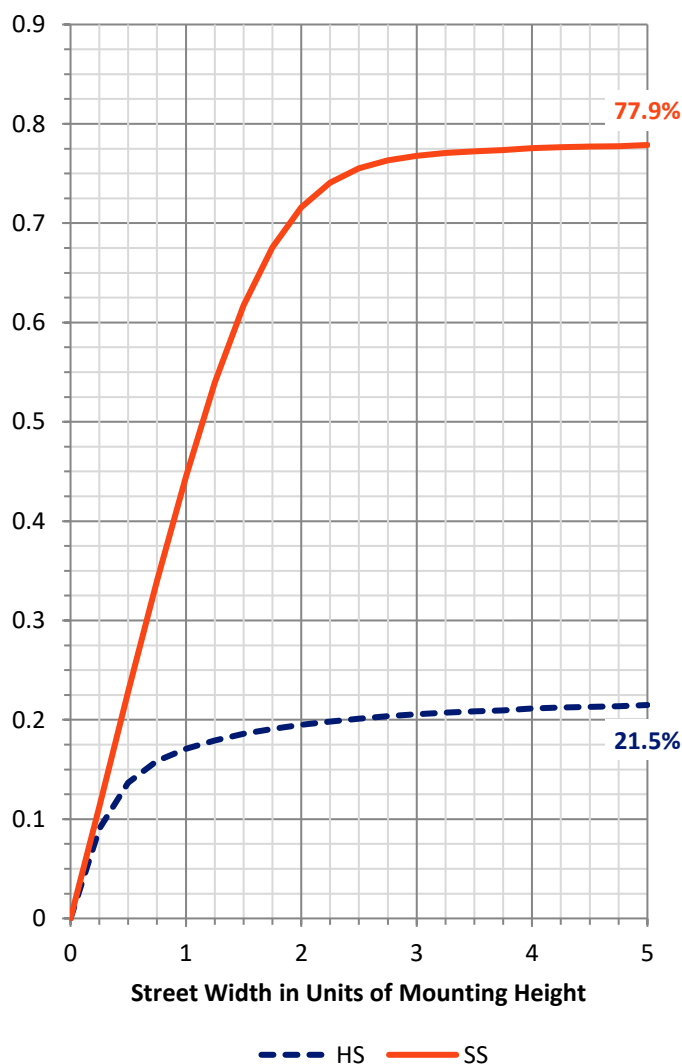
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.0	0.0	960.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3428.0	0.0	3428.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	4388.0	0.0	4388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	1.2
10°-20°	170.9	3.9
20°-30°	297.5	6.8
30°-40°	436.2	9.9
40°-50°	638.2	14.5
50°-60°	997.4	22.7
60°-70°	1185.4	27.0
70°-80°	539.9	12.3
80°-90°	69.2	1.6
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°	4388.0	100.0
0°-180°	4388.0	100.0

Coefficient of Utilization



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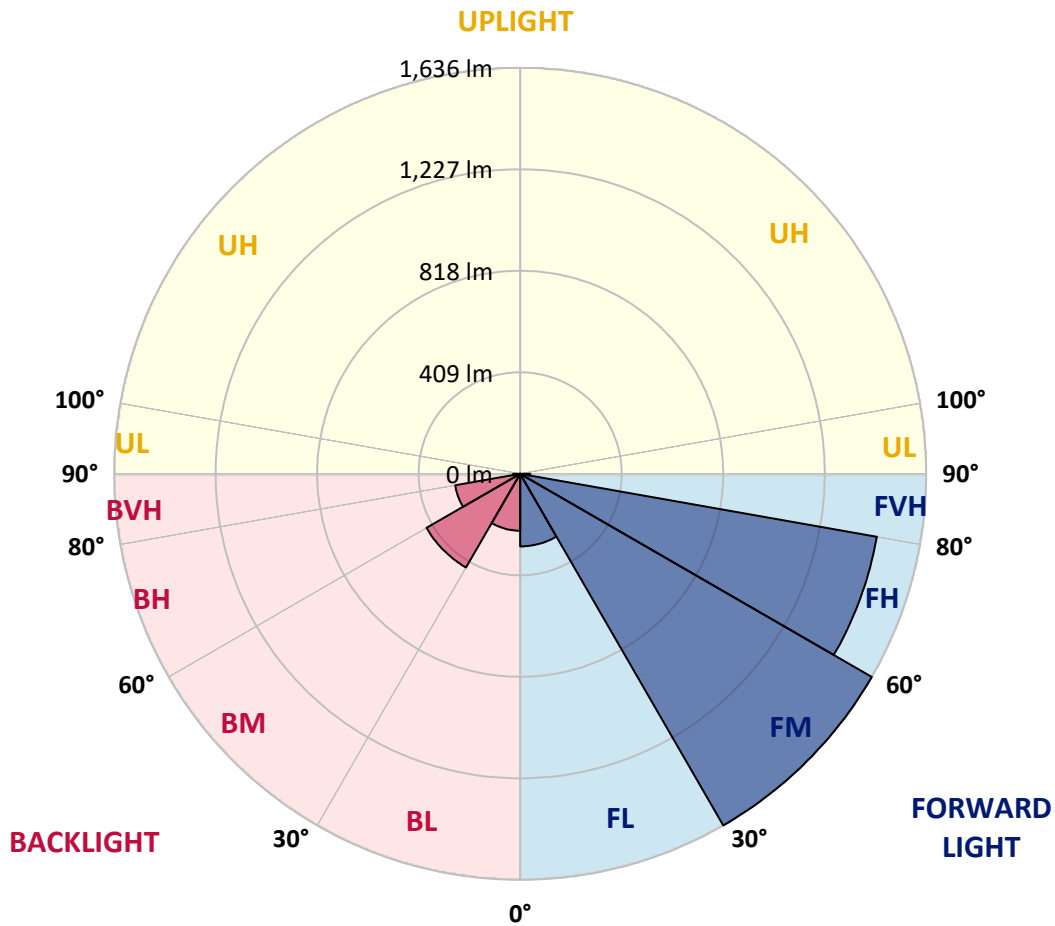
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.3	6.7			
FM (30°-60°)	1636.0	37.3			
FH (60°-80°)	1459.4	33.3			G1/1800
FVH (80°-90°)	40.4	0.9			G1/100
BL (0°-30°)	229.4	5.2	B1/500		
BM (30°-60°)	435.8	9.9	B1/1000		
BH (60°-80°)	266.0	6.1	B1/500		G1/500
BVH (80°-90°)	28.9	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7
2.5°	550.1	547.7	546.5	547.7	546.5	544.1	545.3	544.1	542.9	541.7	541.7
5°	557.2	554.8	553.6	554.8	556.0	553.6	553.6	553.6	550.1	548.9	546.5
7.5°	561.9	558.4	558.4	560.8	563.1	564.3	566.7	565.5	561.9	559.6	554.8
10°	577.4	572.6	572.6	572.6	575.0	577.4	579.8	581.0	579.8	578.6	575.0
12.5°	601.1	596.4	596.4	596.4	596.4	595.2	598.8	600.0	602.3	602.3	596.4
15°	633.2	627.3	624.9	620.2	619.0	616.6	621.3	621.3	624.9	626.1	620.2
17.5°	664.1	657.0	654.6	649.9	645.1	639.2	643.9	645.1	652.2	653.4	643.9
20°	696.2	693.8	690.3	683.1	674.8	668.9	673.6	672.4	678.4	680.7	668.9
22.5°	737.8	731.8	729.5	720.0	710.4	704.5	704.5	706.9	712.8	712.8	695.0
25°	787.7	779.4	773.4	762.7	750.8	743.7	744.9	747.3	755.6	749.7	722.3
27.5°	849.4	841.1	832.8	811.4	799.6	785.3	784.1	786.5	799.6	784.1	748.5
30°	907.7	904.1	897.0	880.3	861.3	837.6	826.9	828.1	837.6	816.2	771.0
32.5°	957.6	952.8	949.2	937.4	924.3	895.8	881.5	882.7	881.5	855.4	798.4
35°	1017.0	1009.8	1007.5	996.8	980.1	961.1	955.2	952.8	945.7	910.0	834.0
37.5°	1074.0	1066.9	1063.3	1057.4	1044.3	1027.7	1027.7	1026.5	1012.2	962.3	869.6
40°	1141.7	1133.4	1122.7	1119.1	1108.4	1096.6	1087.1	1081.1	1056.2	1011.0	938.6
42.5°	1223.7	1218.9	1213.0	1197.5	1180.9	1178.5	1151.2	1148.8	1131.0	1104.9	1036.0
45°	1341.3	1331.8	1323.5	1318.7	1298.5	1277.1	1239.1	1229.6	1229.6	1223.7	1150.0
47.5°	1460.1	1443.5	1455.3	1451.8	1447.0	1423.3	1349.6	1350.8	1348.4	1363.9	1317.5
50°	1539.7	1530.2	1563.5	1578.9	1612.2	1612.2	1506.4	1493.4	1502.9	1548.0	1488.6
52.5°	1601.5	1595.5	1633.6	1694.1	1792.8	1802.3	1693.0	1665.6	1678.7	1742.9	1719.1
55°	1651.4	1645.4	1689.4	1795.1	1953.1	2011.4	1908.0	1896.1	1870.0	1938.9	1946.0
57.5°	1681.1	1668.0	1734.5	1875.9	2083.8	2218.1	2159.9	2156.3	2095.7	2159.9	2191.9
60°	1635.9	1627.6	1719.1	1909.2	2189.6	2412.9	2455.7	2455.7	2347.6	2382.0	2421.2
62.5°	1489.8	1479.1	1575.3	1832.0	2202.6	2572.1	2749.1	2734.9	2589.9	2588.7	2554.3
65°	1211.8	1198.7	1306.8	1577.7	2037.5	2591.1	2947.5	2939.2	2771.7	2724.2	2562.6
67°	880.3	872.0	964.7	1233.2	1716.7	2426.0	2972.5	2979.6	2844.2	2743.2	2442.6
67.5°	790.0	788.9	866.1	1132.2	1622.9	2365.4	2955.8	2963.0	2843.0	2727.7	2395.1
70°	368.3	384.9	457.4	648.7	1094.2	1862.8	2682.6	2709.9	2690.9	2549.5	2017.3
72.5°	171.1	178.2	210.3	313.6	588.1	1201.1	2174.1	2239.5	2322.6	2187.2	1597.9
75°	105.7	108.1	125.9	162.8	276.8	577.4	1548.0	1619.3	1745.2	1645.4	1021.7
77.5°	83.2	84.4	96.2	116.4	161.6	248.3	849.4	938.6	1102.5	973.0	514.4
80°	61.8	64.2	73.7	90.3	114.1	127.1	361.2	394.4	532.2	407.5	213.8
82.5°	45.1	47.5	57.0	65.3	79.6	80.8	147.3	155.6	228.1	165.1	92.7
85°	38.0	38.0	44.0	48.7	53.5	45.1	72.5	71.3	87.9	74.8	36.8
87.5°	17.8	19.0	41.6	30.9	26.1	19.0	21.4	22.6	27.3	29.7	14.3
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°	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7
2.5°	540.6	540.6	540.6	541.7	542.9	542.9	544.1	544.1	545.3	546.5	548.9
5°	545.3	545.3	544.1	545.3	547.7	548.9	551.3	553.6	556.0	558.4	559.6
7.5°	554.8	553.6	553.6	553.6	556.0	558.4	561.9	564.3	567.9	569.1	571.4
10°	572.6	570.3	570.3	571.4	572.6	569.1	567.9	566.7	570.3	572.6	575.0
12.5°	594.0	591.6	590.5	586.9	582.1	575.0	569.1	564.3	565.5	567.9	571.4
15°	616.6	611.8	609.5	601.1	589.3	573.8	564.3	558.4	558.4	558.4	561.9
17.5°	640.4	635.6	626.1	610.7	588.1	566.7	554.8	544.1	539.4	538.2	540.6
20°	662.9	655.8	640.4	616.6	581.0	552.4	537.0	519.2	512.0	507.3	509.7
22.5°	684.3	674.8	653.4	616.6	569.1	531.1	503.7	480.0	468.1	465.7	466.9
25°	706.9	695.0	666.5	609.5	542.9	499.0	461.0	436.0	420.6	418.2	421.8
27.5°	729.5	711.6	677.2	590.5	513.2	455.0	414.6	390.9	382.5	377.8	379.0
30°	748.5	731.8	687.9	564.3	472.8	403.9	367.1	356.4	350.5	348.1	348.1
32.5°	773.4	758.0	695.0	533.4	425.3	357.6	333.8	325.5	320.8	314.8	316.0
35°	804.3	790.0	691.4	494.2	380.2	326.7	307.7	295.8	285.1	276.8	275.6
37.5°	845.9	835.2	673.6	446.7	338.6	304.1	285.1	269.7	254.2	241.2	238.8
40°	914.8	889.8	647.5	394.4	310.1	286.3	263.7	244.7	225.7	211.5	207.9
42.5°	1002.7	950.4	611.8	341.0	286.3	267.3	244.7	219.8	202.0	188.9	188.9
45°	1104.9	1015.8	569.1	300.6	261.4	248.3	221.0	199.6	188.9	180.6	179.4
47.5°	1226.1	1081.1	514.4	268.5	241.2	231.7	204.3	191.3	184.1	177.0	175.8
50°	1388.8	1169.0	474.0	241.2	221.0	212.7	199.6	188.9	181.8	177.0	175.8
52.5°	1575.3	1281.9	445.5	219.8	204.3	200.8	198.4	190.1	183.0	179.4	178.2
55°	1777.3	1420.9	418.2	202.0	191.3	196.0	200.8	192.5	187.7	183.0	180.6
57.5°	1967.4	1538.5	374.2	186.5	181.8	190.1	199.6	193.7	187.7	184.1	183.0
60°	2096.9	1597.9	313.6	172.3	172.3	181.8	196.0	187.7	181.8	183.0	183.0
62.5°	2138.5	1575.3	248.3	159.2	162.8	172.3	185.3	180.6	178.2	184.1	184.1
65°	2076.7	1483.9	198.4	148.5	153.3	160.4	179.4	184.1	191.3	204.3	205.5
67°	1915.1	1336.5	167.5	140.2	144.9	156.8	186.5	203.2	203.2	217.4	217.4
67.5°	1867.6	1286.6	162.8	137.8	143.8	156.8	190.1	207.9	203.2	219.8	219.8
70°	1518.3	1012.2	137.8	130.7	139.0	165.1	205.5	209.1	198.4	213.8	212.7
72.5°	1126.3	731.8	125.9	123.6	129.5	155.6	204.3	200.8	185.3	190.1	186.5
75°	696.2	424.1	116.4	114.1	117.6	137.8	188.9	183.0	165.1	161.6	158.0
77.5°	336.2	215.0	99.8	103.4	106.9	120.0	166.3	160.4	144.9	136.6	135.4
80°	146.1	110.5	85.5	91.5	92.7	102.2	137.8	130.7	116.4	103.4	103.4
82.5°	72.5	61.8	67.7	76.0	73.7	82.0	108.1	96.2	85.5	71.3	68.9
85°	33.3	35.6	49.9	57.0	49.9	51.1	73.7	67.7	53.5	40.4	41.6
87.5°	11.9	16.6	28.5	34.5	24.9	23.8	39.2	28.5	16.6	4.8	5.9
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)