

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: P573295

Luminaire Tested: **ARCH-S-PA2-60-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7816 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

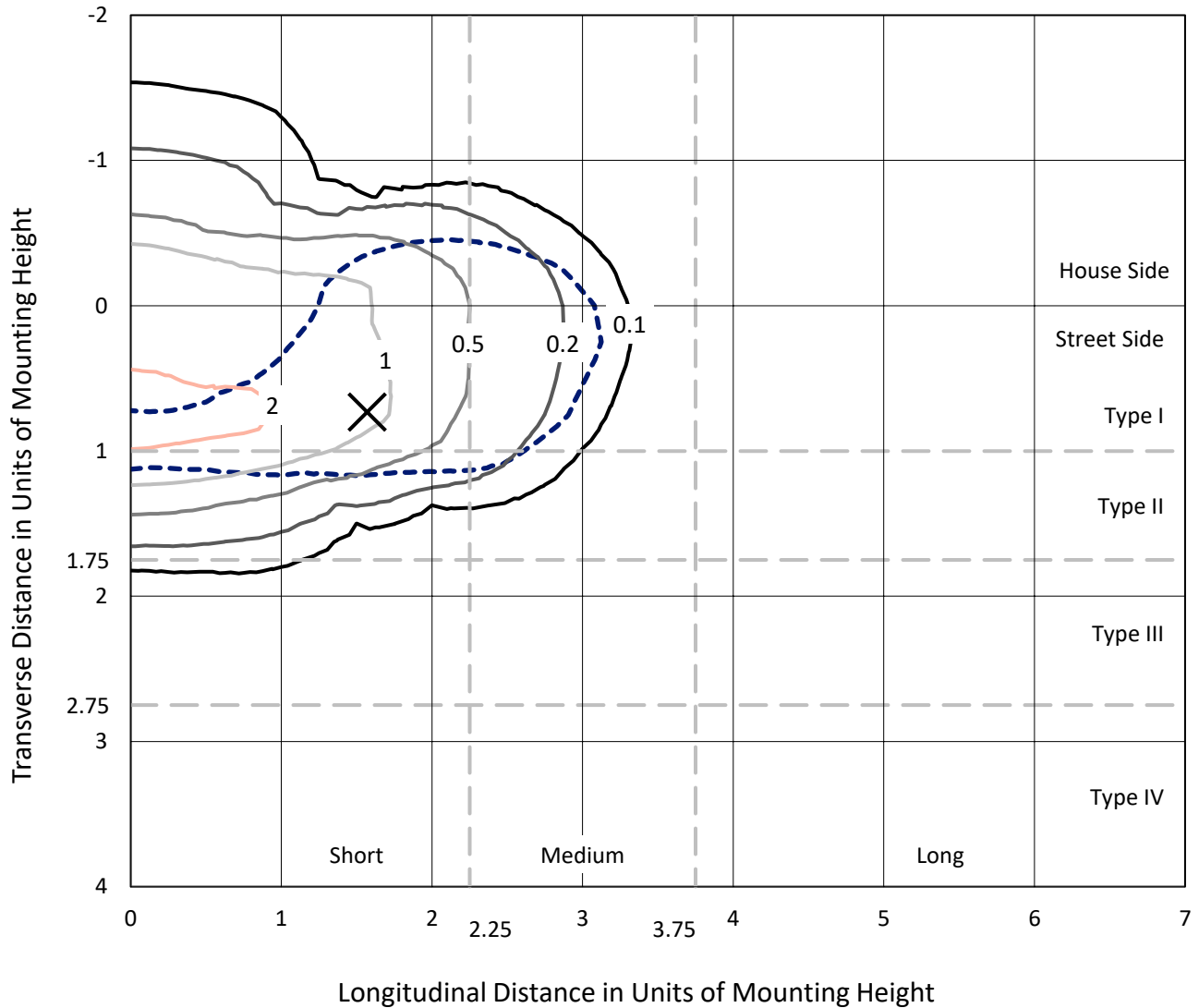
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

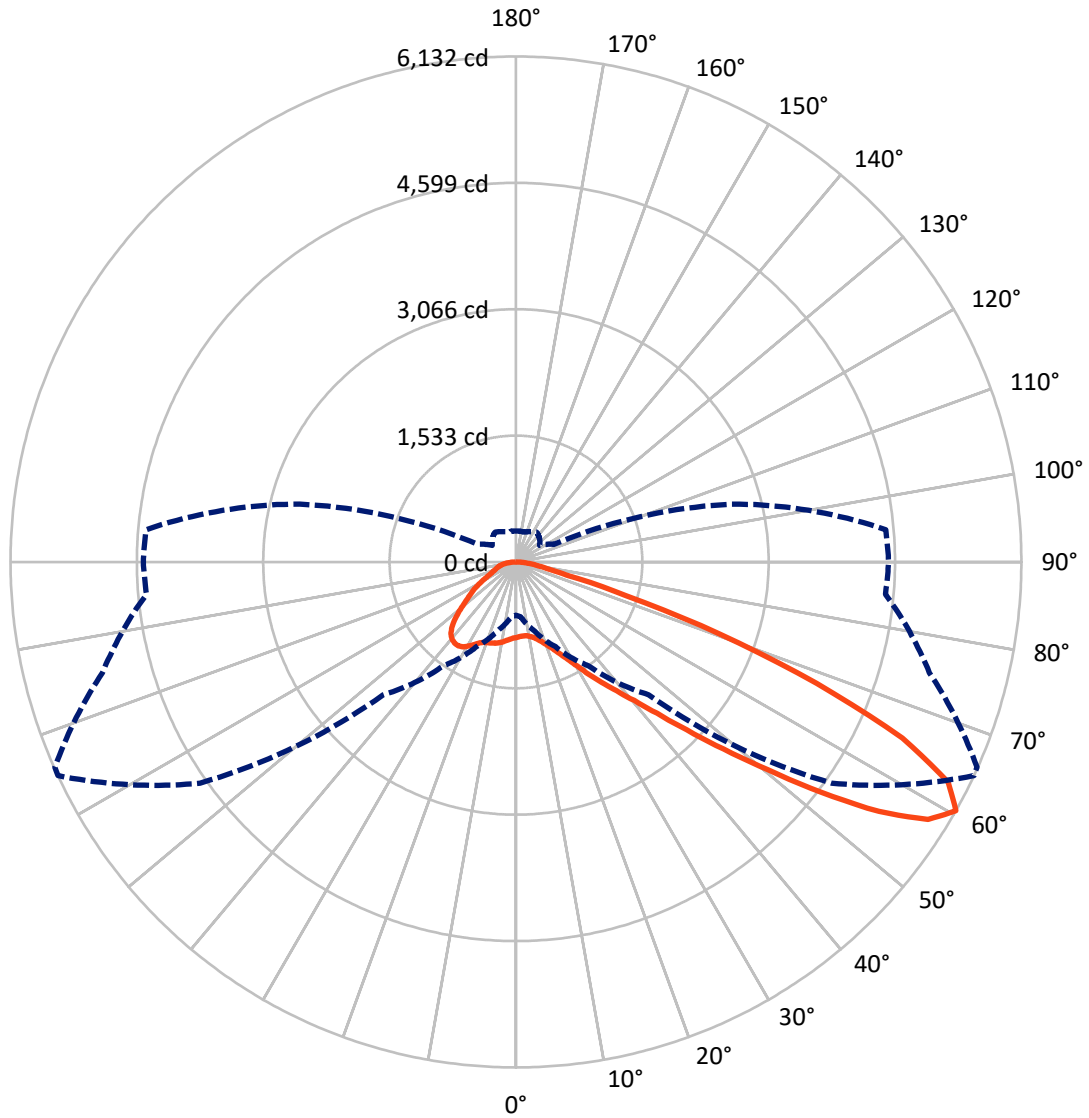
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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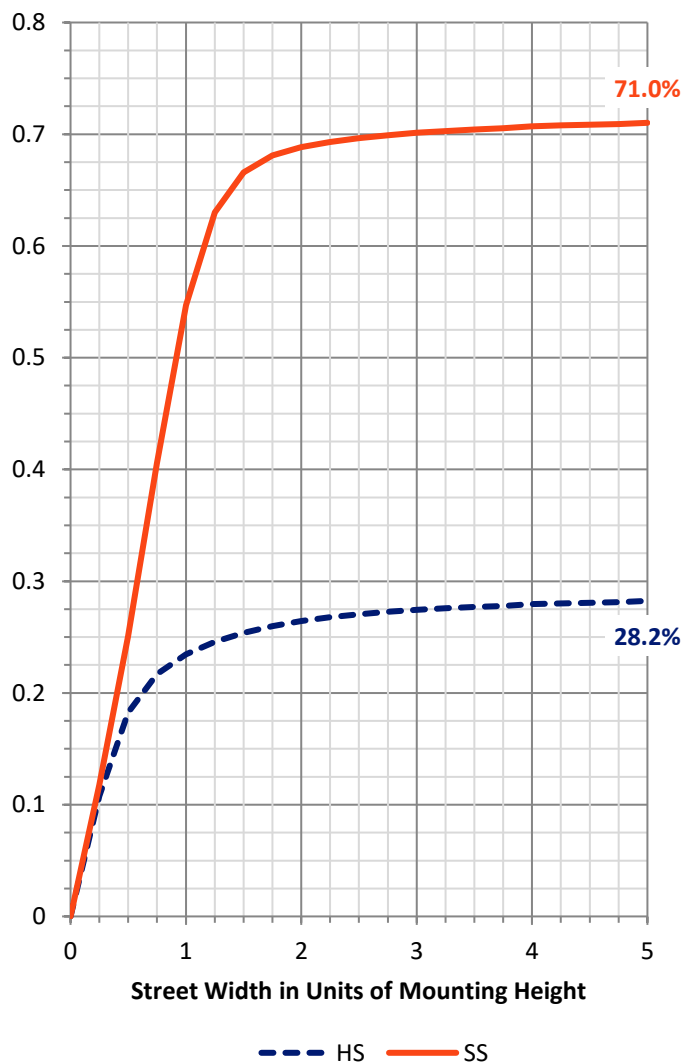
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.5	0.0	2237.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	5578.5	0.0	5578.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	7816.0	0.0	7816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.1
10°-20°	285.2	3.6
20°-30°	546.6	7.0
30°-40°	949.4	12.1
40°-50°	1610.1	20.6
50°-60°	2004.9	25.7
60°-70°	1615.6	20.7
70°-80°	611.8	7.8
80°-90°	103.8	1.3
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°	7816.0	100.0
0°-180°	7816.0	100.0

Coefficient of Utilization

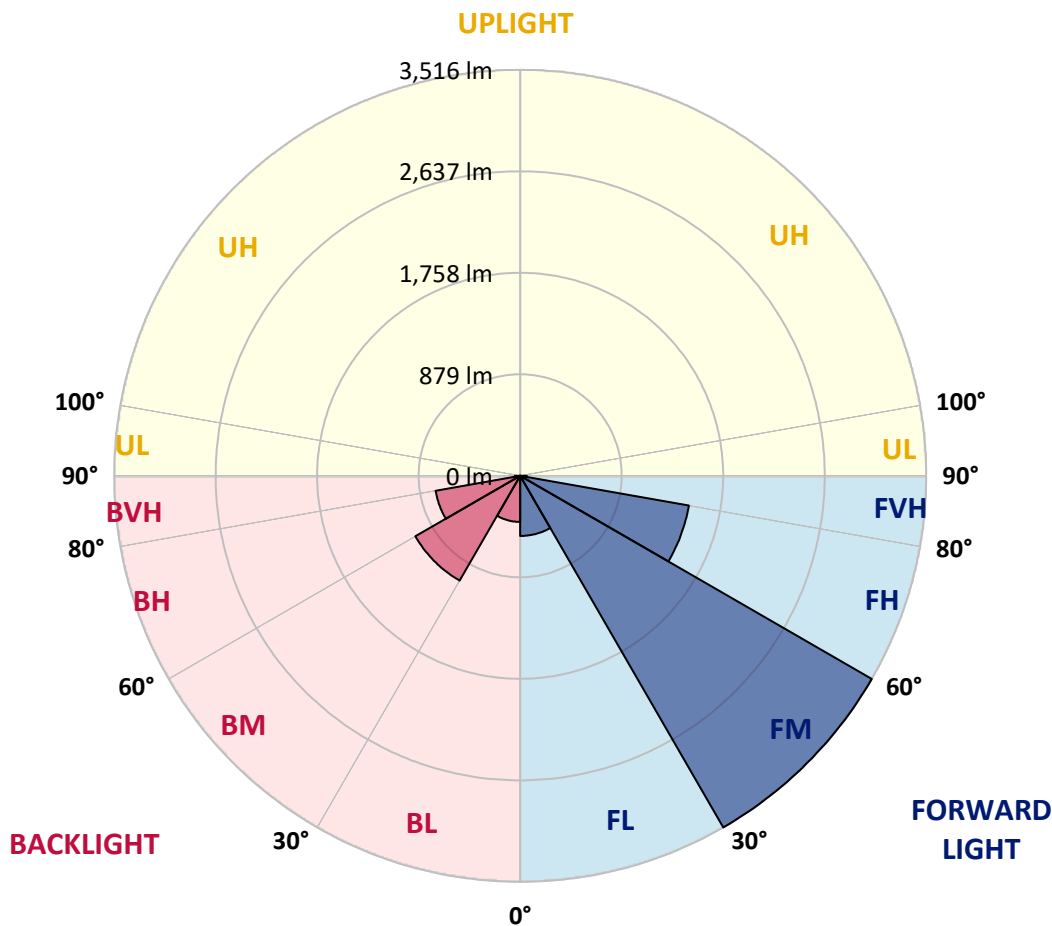


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.1	6.7			
FM (30°-60°)	3516.4	45.0			
FH (60°-80°)	1483.4	19.0			G1/1800
FVH (80°-90°)	57.6	0.7			G1/100
BL (0°-30°)	399.3	5.1	B1/500		
BM (30°-60°)	1048.0	13.4	B2/2500		
BH (60°-80°)	744.0	9.5	B2/1000		G2/1000
BVH (80°-90°)	46.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1
2.5°	895.6	895.6	895.6	897.8	899.9	902.1	906.3	906.3	906.3	908.5	912.8
5°	878.5	876.3	878.5	880.6	884.9	889.2	897.8	897.8	902.1	910.6	919.2
7.5°	880.6	876.3	876.3	878.5	882.8	887.1	895.6	902.1	904.2	914.9	929.9
10°	902.1	895.6	895.6	897.8	897.8	902.1	908.5	917.1	919.2	929.9	944.9
12.5°	947.0	940.6	938.5	932.1	925.6	929.9	936.3	938.5	940.6	947.0	962.0
15°	1041.3	1030.6	1013.5	1000.6	983.5	972.8	970.6	972.8	972.8	974.9	983.5
17.5°	1176.3	1163.5	1137.7	1109.9	1069.2	1034.9	1024.2	1015.6	1015.6	1009.2	1009.2
20°	1341.3	1322.0	1292.0	1251.3	1191.3	1129.2	1092.7	1073.5	1067.0	1056.3	1041.3
22.5°	1532.0	1519.1	1480.6	1418.4	1328.4	1244.9	1184.9	1142.0	1142.0	1116.3	1084.2
25°	1757.0	1733.4	1688.4	1615.6	1493.4	1373.4	1292.0	1229.9	1223.5	1182.7	1131.3
27.5°	1975.5	1960.5	1904.8	1808.4	1662.7	1523.4	1409.9	1337.0	1326.3	1262.0	1182.7
30°	2241.2	2224.1	2140.5	2005.5	1849.1	1690.5	1557.7	1463.4	1452.7	1364.9	1253.4
32.5°	2571.2	2513.3	2410.5	2256.2	2054.8	1877.0	1724.8	1624.1	1611.3	1510.6	1377.7
35°	2971.8	2922.6	2744.7	2581.9	2341.9	2108.4	1926.2	1793.4	1776.3	1656.3	1489.1
37.5°	3254.7	3231.1	3109.0	2980.4	2706.2	2391.2	2168.4	1984.1	1966.9	1808.4	1592.0
40°	3432.5	3408.9	3374.7	3338.2	3186.1	2830.4	2459.8	2209.1	2181.2	2031.2	1797.7
42.5°	3524.7	3505.4	3511.8	3584.6	3627.5	3571.8	2875.4	2509.0	2489.8	2307.6	2048.4
45°	3471.1	3458.2	3520.4	3713.2	3923.2	4334.6	3408.9	2903.3	2851.9	2635.5	2352.6
47.5°	3214.0	3175.4	3321.1	3648.9	4098.9	4698.8	4051.7	3389.7	3334.0	3023.3	2661.2
50°	2684.7	2674.0	2873.3	3289.0	4030.3	4842.4	4739.5	3963.9	3923.2	3441.1	3004.0
52.5°	2191.9	2187.6	2341.9	2723.3	3593.2	4741.7	5238.8	4647.4	4525.3	3861.0	3376.8
55°	1701.3	1699.1	1836.2	2121.2	2866.9	4268.1	5474.5	5343.8	5253.8	4319.6	3760.3
57.5°	1163.5	1148.5	1326.3	1542.7	2153.4	3381.1	5320.2	5894.4	5838.7	4806.0	4167.4
60°	647.1	668.5	865.6	1133.5	1540.6	2277.6	4677.4	6132.2	6123.7	5193.8	4499.6
62.5°	458.5	467.1	550.7	805.6	1013.5	1304.9	3608.2	5885.8	5954.4	5408.0	4688.1
65°	381.4	385.7	426.4	595.7	741.4	754.2	2249.8	5155.2	5245.2	5341.6	4728.8
67.5°	360.0	362.1	383.5	439.2	580.7	546.4	1004.9	3936.0	4126.7	4806.0	4463.1
70°	327.8	330.0	362.1	387.8	469.2	430.7	516.4	2614.0	2871.1	3798.9	3848.2
72.5°	280.7	287.1	312.8	364.2	381.4	357.8	398.5	1397.0	1652.0	2541.2	2971.8
75°	242.1	246.4	265.7	308.5	357.8	285.0	338.5	636.4	745.6	1491.3	1881.2
77.5°	195.0	197.1	225.0	252.8	300.0	231.4	263.5	381.4	400.7	728.5	850.6
80°	147.8	147.8	167.1	201.4	222.8	222.8	192.8	265.7	276.4	347.1	336.4
82.5°	113.6	111.4	126.4	141.4	160.7	186.4	145.7	175.7	180.0	210.0	180.0
85°	75.0	75.0	83.6	96.4	107.1	102.8	113.6	102.8	107.1	130.7	98.6
87.5°	32.1	32.1	45.0	42.9	47.1	49.3	55.7	49.3	49.3	60.0	45.0
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°	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1
2.5°	914.9	917.1	921.3	923.5	929.9	932.1	932.1	936.3	936.3	940.6	940.6
5°	921.3	927.8	934.2	940.6	947.0	949.2	953.5	955.6	955.6	959.9	957.8
7.5°	934.2	940.6	953.5	959.9	968.5	972.8	970.6	972.8	970.6	972.8	972.8
10°	951.3	959.9	974.9	983.5	989.9	992.0	985.6	979.2	970.6	970.6	970.6
12.5°	970.6	977.0	996.3	1002.8	1007.0	1000.6	983.5	970.6	964.2	966.3	964.2
15°	989.9	996.3	1011.3	1017.8	1017.8	998.5	983.5	979.2	977.0	979.2	979.2
17.5°	1009.2	1015.6	1028.5	1028.5	1022.0	1007.0	992.0	977.0	966.3	959.9	959.9
20°	1034.9	1034.9	1039.2	1039.2	1037.0	1013.5	977.0	940.6	919.2	906.3	904.2
22.5°	1069.2	1060.6	1052.0	1052.0	1060.6	998.5	927.8	872.1	837.8	833.5	824.9
25°	1105.6	1086.3	1064.9	1079.9	1064.9	959.9	859.2	784.2	743.5	728.5	732.8
27.5°	1144.2	1114.2	1082.0	1124.9	1043.5	884.9	762.8	679.2	640.7	629.9	629.9
30°	1197.7	1152.7	1105.6	1172.0	1002.8	799.2	649.2	589.2	567.8	559.2	557.1
32.5°	1300.6	1232.0	1163.5	1214.9	957.8	687.8	572.1	535.7	509.9	501.4	507.8
35°	1392.7	1296.3	1251.3	1234.2	887.1	597.8	524.9	492.8	471.4	460.7	460.7
37.5°	1476.3	1384.1	1349.9	1234.2	794.9	542.1	495.0	469.2	441.4	432.8	432.8
40°	1658.4	1536.3	1476.3	1217.0	681.4	514.2	480.0	450.0	426.4	417.8	415.7
42.5°	1909.1	1744.1	1607.0	1178.5	584.9	501.4	471.4	437.1	417.8	411.4	409.2
45°	2174.8	2029.1	1731.3	1109.9	522.8	488.5	469.2	432.8	409.2	402.8	400.7
47.5°	2496.2	2346.2	1874.8	1004.9	480.0	480.0	467.1	426.4	405.0	398.5	398.5
50°	2851.9	2727.6	2056.9	884.9	447.8	473.5	462.8	426.4	402.8	396.4	394.2
52.5°	3216.1	3158.3	2247.6	767.1	415.7	465.0	460.7	426.4	398.5	392.1	392.1
55°	3678.9	3631.8	2468.3	679.2	390.0	447.8	460.7	422.1	392.1	387.8	387.8
57.5°	4133.2	4116.0	2639.7	602.1	370.7	426.4	454.2	415.7	385.7	383.5	383.5
60°	4521.0	4503.8	2712.6	505.7	351.4	405.0	441.4	405.0	375.0	377.1	377.1
62.5°	4761.0	4662.4	2659.0	417.8	332.1	385.7	426.4	392.1	364.2	370.7	368.5
65°	4803.8	4574.5	2451.2	349.3	310.7	364.2	409.2	377.1	349.3	364.2	362.1
67.5°	4488.8	4107.4	2061.2	304.3	289.3	340.7	390.0	355.7	332.1	353.5	347.1
70°	3807.5	3336.1	1525.6	270.0	267.8	312.8	364.2	330.0	308.5	319.3	310.7
72.5°	2834.7	2408.3	987.8	244.3	244.3	280.7	327.8	297.8	276.4	278.5	270.0
75°	1767.7	1480.6	561.4	220.7	220.7	248.5	291.4	261.4	246.4	237.8	248.5
77.5°	803.5	651.4	295.7	197.1	199.3	212.1	250.7	222.8	205.7	192.8	199.3
80°	297.8	265.7	192.8	169.3	173.6	175.7	201.4	177.8	162.8	154.3	150.0
82.5°	154.3	143.6	130.7	135.0	141.4	135.0	156.4	132.8	115.7	109.3	92.1
85°	77.1	75.0	79.3	90.0	98.6	83.6	94.3	85.7	70.7	51.4	51.4
87.5°	30.0	32.1	30.0	40.7	45.0	38.6	42.9	30.0	21.4	10.7	8.6
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)