

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: P573275

Luminaire Tested: **ARCH-S-PA2-50-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6392 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

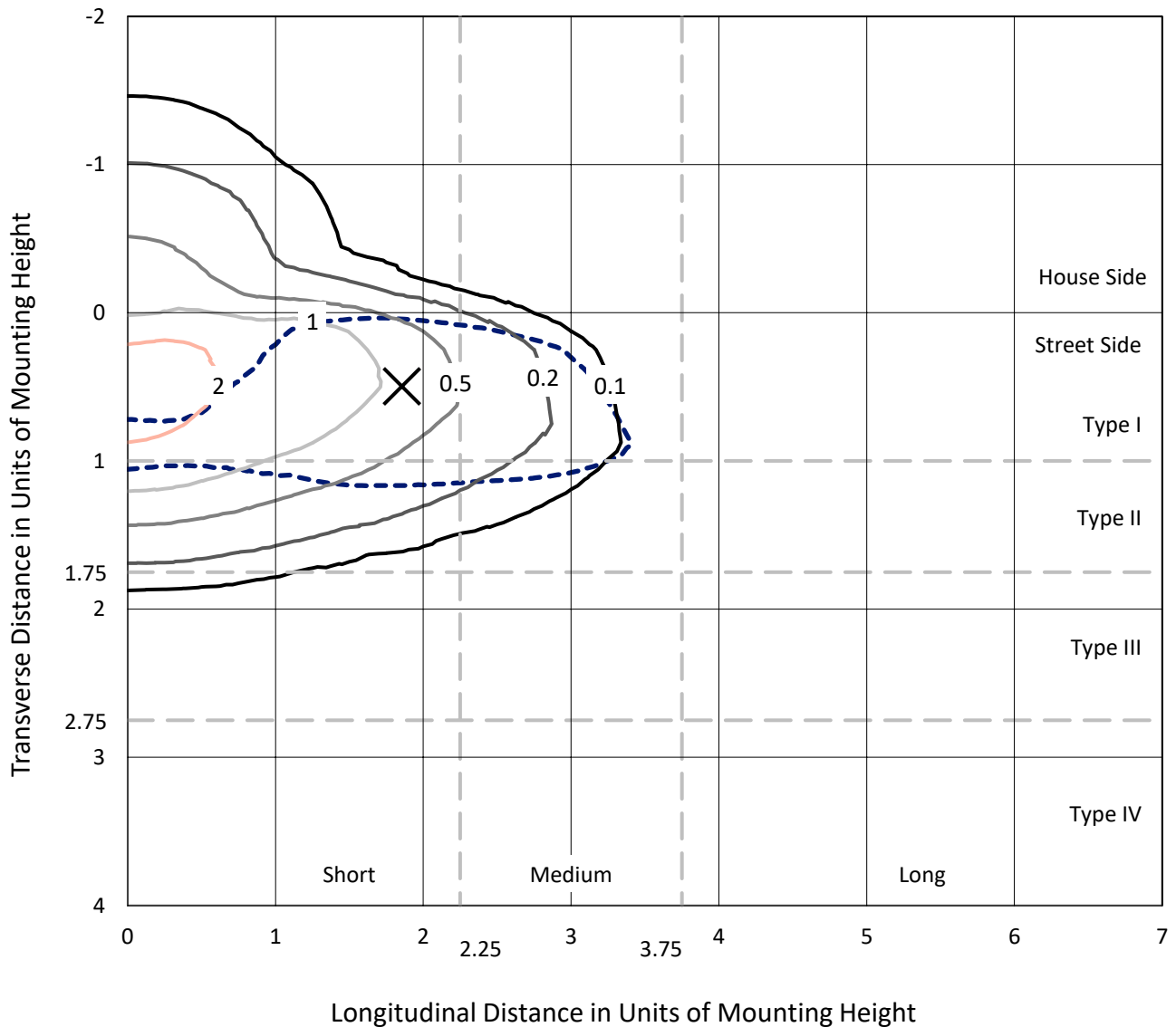
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

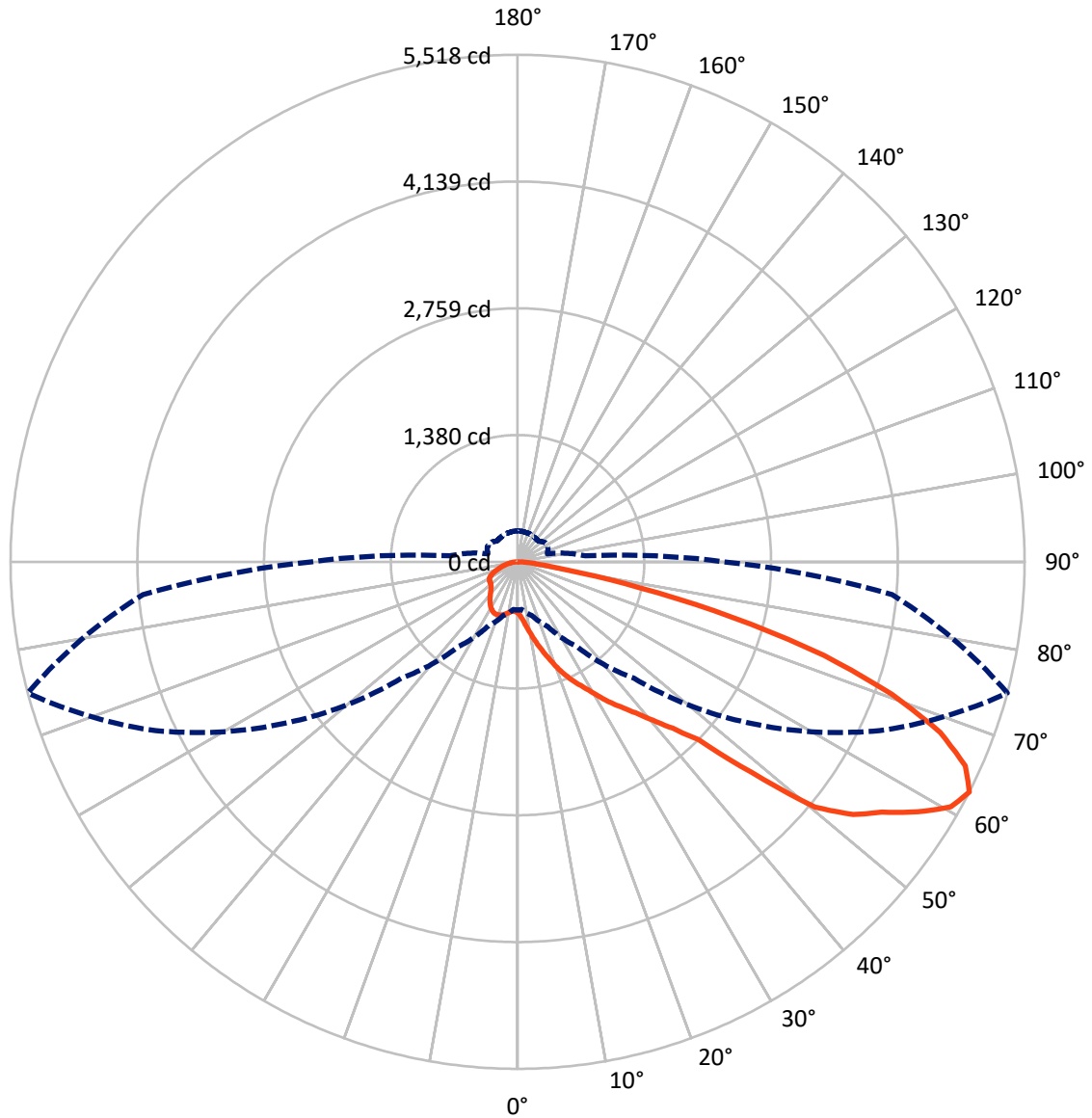
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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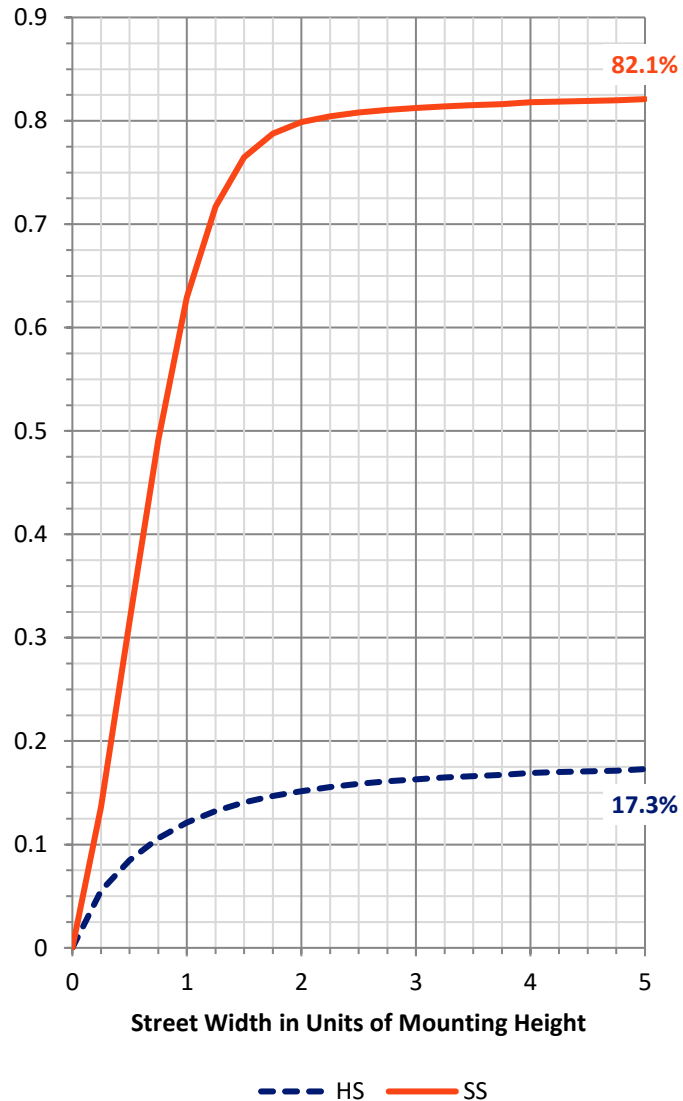
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.3	0.0	1127.3
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	5264.6	0.0	5264.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	6392.0	0.0	6392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.0
10°-20°	264.5	4.1
20°-30°	523.3	8.2
30°-40°	872.2	13.6
40°-50°	1287.1	20.1
50°-60°	1547.2	24.2
60°-70°	1202.5	18.8
70°-80°	532.0	8.3
80°-90°	96.3	1.5
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°	6392.0	100.0
0°-180°	6392.0	100.0

Coefficient of Utilization



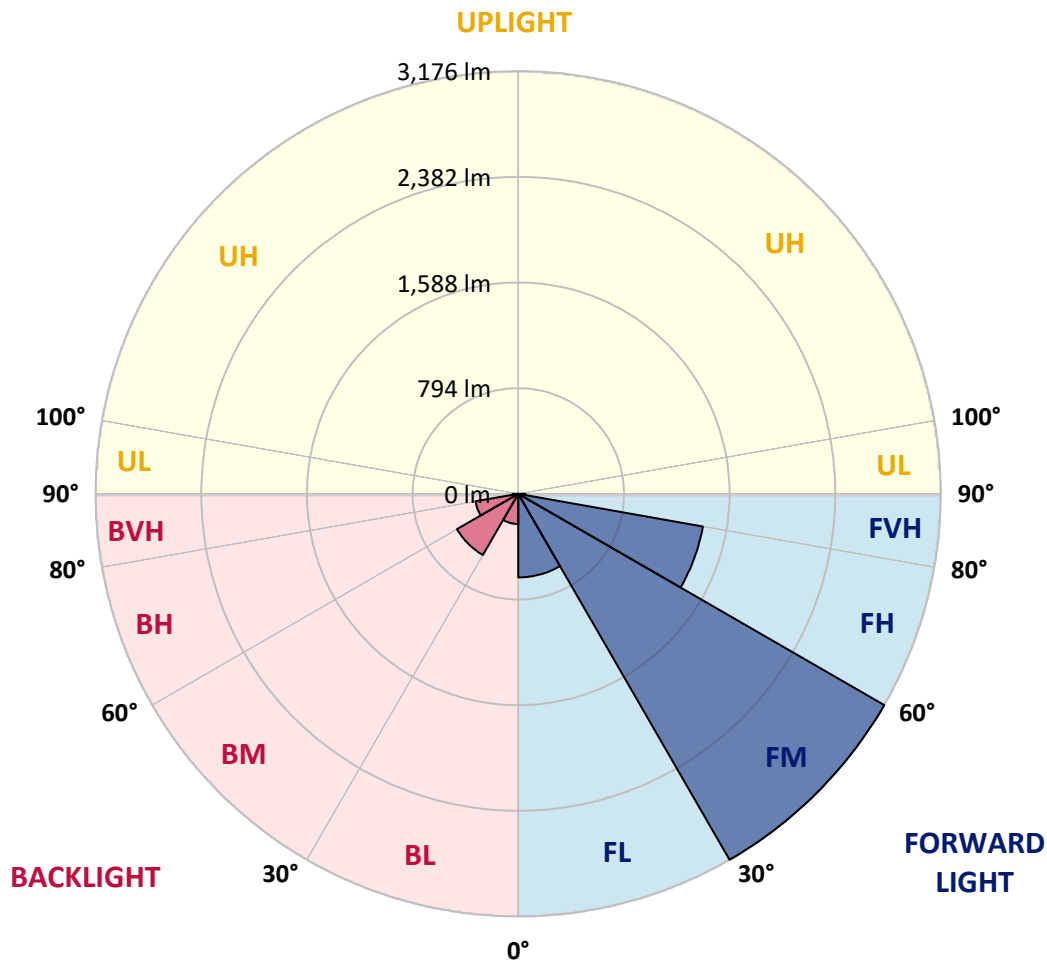
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.9	9.8			
FM (30°-60°)	3175.6	49.7			
FH (60°-80°)	1408.3	22.0			G1/1800
FVH (80°-90°)	52.9	0.8			G1/100
BL (0°-30°)	226.8	3.5	B1/500		
BM (30°-60°)	531.0	8.3	B1/1000		
BH (60°-80°)	326.2	5.1	B1/500		G1/500
BVH (80°-90°)	43.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	712.4	691.7	691.7	669.3	671.0	652.0	631.3	610.6	588.2	571.0	562.3
5°	931.5	916.0	910.8	884.9	843.5	796.9	746.9	695.2	641.7	600.3	579.6
7.5°	1136.8	1124.7	1117.8	1088.5	1031.5	981.5	902.2	807.3	715.9	638.2	607.2
10°	1288.6	1279.9	1266.1	1252.3	1210.9	1167.8	1069.5	934.9	800.4	684.8	638.2
12.5°	1399.0	1386.9	1386.9	1385.2	1357.6	1317.9	1226.5	1081.6	898.7	736.6	672.7
15°	1473.1	1471.4	1476.6	1486.9	1480.0	1454.2	1362.7	1216.1	998.8	795.2	712.4
17.5°	1528.3	1521.4	1531.8	1559.4	1580.1	1569.7	1493.8	1345.5	1109.2	859.0	755.5
20°	1588.7	1574.9	1588.7	1623.2	1649.1	1664.6	1628.4	1469.7	1228.2	928.0	796.9
22.5°	1704.3	1702.6	1695.7	1706.0	1723.3	1750.9	1730.2	1595.6	1343.8	997.0	845.2
25°	1911.3	1892.3	1873.3	1850.9	1831.9	1840.6	1823.3	1712.9	1449.0	1072.9	886.6
27.5°	2142.4	2121.7	2087.2	2032.0	1980.3	1949.2	1913.0	1814.7	1550.8	1141.9	926.3
30°	2354.6	2347.7	2296.0	2235.6	2145.9	2089.0	2020.0	1932.0	1673.2	1217.8	967.7
32.5°	2553.0	2539.2	2487.4	2423.6	2318.4	2254.6	2159.7	2059.6	1813.0	1311.0	1010.8
35°	2723.7	2709.9	2649.6	2568.5	2477.1	2421.9	2313.2	2173.5	1940.6	1392.1	1047.1
37.5°	2853.1	2837.6	2780.7	2701.3	2620.3	2594.4	2501.2	2318.4	2085.5	1493.8	1091.9
40°	2925.6	2906.6	2868.6	2813.4	2746.2	2734.1	2694.4	2497.8	2268.4	1618.0	1157.5
42.5°	2934.2	2916.9	2896.2	2891.1	2885.9	2896.2	2915.2	2701.3	2477.1	1783.6	1254.1
45°	2858.3	2847.9	2849.7	2908.3	2989.4	3084.3	3198.1	3001.5	2758.2	2099.3	1471.4
47.5°	2696.1	2691.0	2728.9	2827.2	3008.4	3224.0	3546.6	3515.5	3424.1	2608.2	1750.9
50°	2434.0	2425.3	2506.4	2661.7	2920.4	3270.6	3781.2	4121.0	4196.9	3003.2	1933.7
52.5°	2057.9	2068.3	2194.2	2406.4	2718.6	3220.5	3877.8	4369.4	4569.5	3294.7	2073.4
55°	1673.2	1657.7	1771.6	2033.8	2420.2	3037.7	3896.7	4512.6	4811.0	3563.8	2209.7
57.5°	1219.6	1257.5	1378.3	1616.3	2035.5	2706.5	3786.3	4610.9	5135.3	3832.9	2335.6
60°	826.3	826.3	933.2	1171.3	1573.2	2304.6	3491.4	4574.7	5418.2	4043.4	2363.2
62.5°	526.1	520.9	607.2	776.2	1126.4	1790.5	3049.8	4347.0	5518.2	4093.4	2247.7
65°	332.9	339.8	370.9	474.4	721.0	1271.3	2447.8	3893.3	5354.4	3977.8	2045.8
67.5°	267.4	269.1	284.6	327.7	443.3	815.9	1814.7	3267.1	4962.8	3686.3	1809.5
70°	236.3	239.8	243.2	258.7	303.6	515.8	1192.0	2630.6	4321.1	3179.1	1555.9
72.5°	215.6	219.1	222.5	226.0	250.1	336.4	703.8	1994.1	3486.2	2442.6	1186.8
75°	198.4	201.8	201.8	203.5	217.3	250.1	386.4	1374.8	2427.1	1519.7	740.0
77.5°	177.7	179.4	179.4	182.8	196.6	196.6	239.8	850.4	1347.2	688.3	374.3
80°	150.1	153.5	153.5	158.7	172.5	151.8	160.4	434.7	558.9	282.9	167.3
82.5°	110.4	117.3	120.7	129.4	138.0	115.6	115.6	219.1	236.3	125.9	89.7
85°	60.4	62.1	89.7	96.6	101.8	69.0	77.6	108.7	117.3	55.2	44.8
87.5°	17.2	19.0	43.1	53.5	48.3	29.3	32.8	41.4	41.4	15.5	12.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	555.4	541.6	529.6	520.9	512.3	507.1	505.4	502.0	502.0	503.7
5°	562.3	538.2	519.2	508.9	502.0	498.5	496.8	496.8	498.5	498.5
7.5°	579.6	543.4	526.1	517.5	510.6	507.1	507.1	505.4	507.1	507.1
10°	603.7	558.9	539.9	529.6	524.4	519.2	517.5	515.8	515.8	515.8
12.5°	629.6	576.1	555.4	543.4	534.7	527.8	524.4	520.9	519.2	519.2
15°	653.8	593.4	565.8	552.0	539.9	529.6	522.7	517.5	515.8	515.8
17.5°	679.6	605.5	572.7	553.7	538.2	524.4	515.8	508.9	505.4	505.4
20°	707.2	614.1	572.7	548.5	527.8	514.0	503.7	496.8	489.9	489.9
22.5°	729.7	617.5	565.8	536.5	515.8	498.5	488.2	479.5	474.4	474.4
25°	748.6	614.1	550.3	517.5	493.3	477.8	467.5	460.6	455.4	455.4
27.5°	760.7	600.3	531.3	496.8	474.4	458.8	451.9	445.0	441.6	441.6
30°	767.6	583.0	507.1	474.4	451.9	443.3	439.9	433.0	427.8	426.1
32.5°	771.1	557.2	483.0	451.9	436.4	433.0	433.0	424.3	417.4	415.7
35°	767.6	529.6	458.8	433.0	427.8	429.5	426.1	415.7	407.1	403.6
37.5°	762.4	496.8	433.0	419.2	424.3	427.8	417.4	403.6	389.8	386.4
40°	759.0	467.5	412.3	405.4	420.9	422.6	403.6	377.8	367.4	364.0
42.5°	776.2	438.1	393.3	395.0	412.3	414.0	379.5	367.4	360.5	358.8
45°	834.9	412.3	377.8	388.1	401.9	395.0	367.4	365.7	360.5	358.8
47.5°	879.7	393.3	370.9	382.9	393.3	369.1	365.7	364.0	358.8	357.1
50°	895.3	381.2	369.1	379.5	381.2	357.1	362.2	362.2	357.1	355.3
52.5°	897.0	374.3	372.6	377.8	362.2	351.9	358.8	358.8	353.6	351.9
55°	903.9	370.9	374.3	377.8	341.5	345.0	351.9	353.6	348.4	346.7
57.5°	890.1	365.7	377.8	379.5	332.9	338.1	345.0	345.0	345.0	345.0
60°	836.6	355.3	376.0	376.0	326.0	329.5	336.4	339.8	341.5	341.5
62.5°	738.3	334.6	365.7	365.7	319.1	322.6	331.2	331.2	336.4	336.4
65°	614.1	305.3	345.0	343.3	312.2	315.7	326.0	322.6	331.2	332.9
67.5°	512.3	269.1	313.9	317.4	305.3	313.9	320.8	308.8	326.0	326.0
70°	408.8	226.0	272.5	288.1	293.2	315.7	310.5	291.5	313.9	308.8
72.5°	317.4	191.5	224.2	251.8	279.4	313.9	288.1	267.4	281.2	272.5
75°	231.1	158.7	184.6	208.7	260.5	308.8	265.6	234.6	234.6	231.1
77.5°	162.1	129.4	148.3	165.6	241.5	295.0	238.0	201.8	193.2	191.5
80°	110.4	101.8	117.3	127.6	213.9	267.4	205.3	167.3	151.8	148.3
82.5°	72.4	72.4	79.3	86.2	165.6	222.5	160.4	124.2	160.4	153.5
85°	41.4	43.1	43.1	50.0	91.4	157.0	113.8	124.2	74.2	69.0
87.5°	13.8	13.8	13.8	13.8	19.0	63.8	48.3	44.8	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)