

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: P573137

Luminaire Tested: **ARCH-S-PA2-40-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5583 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

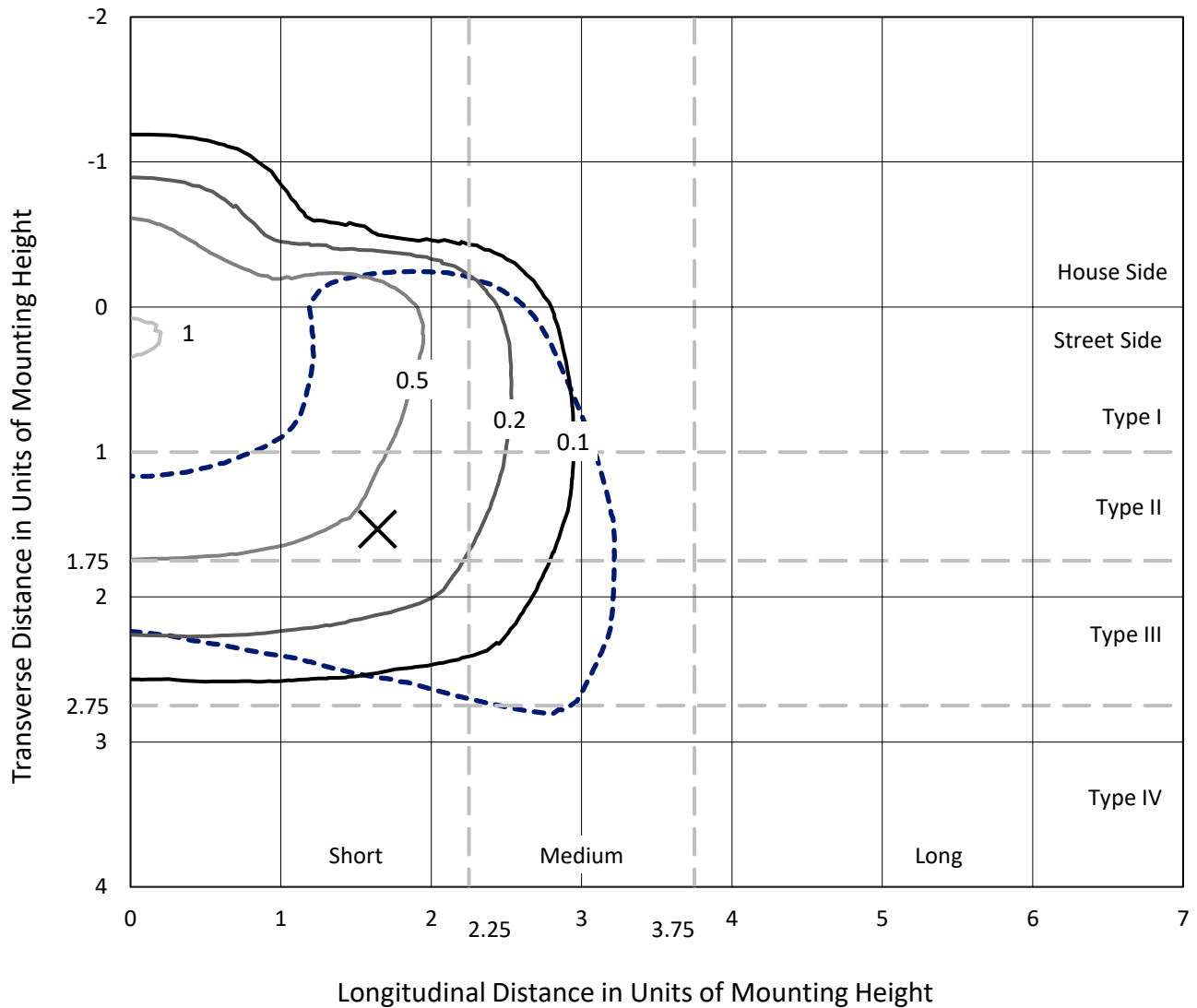
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

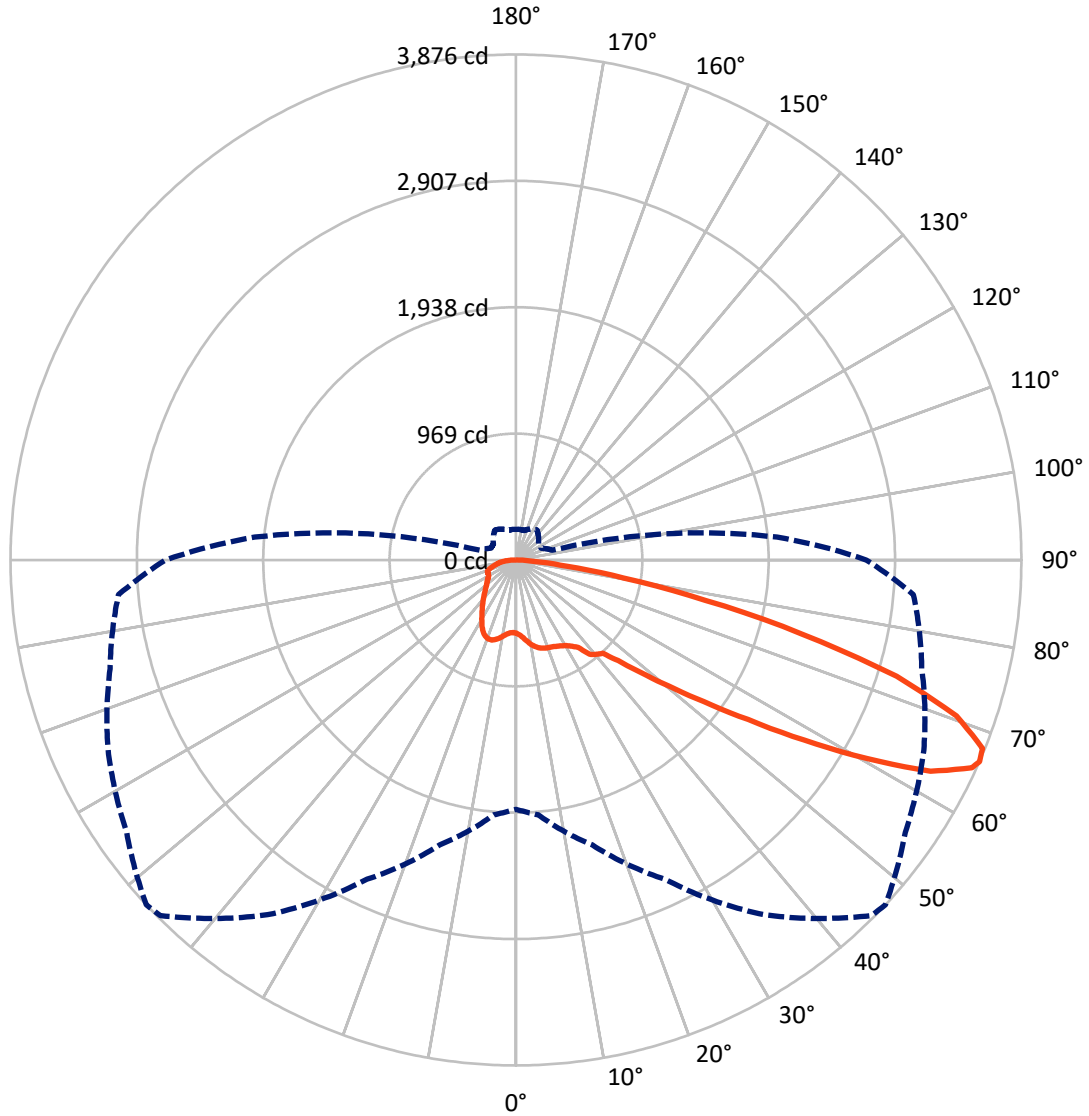
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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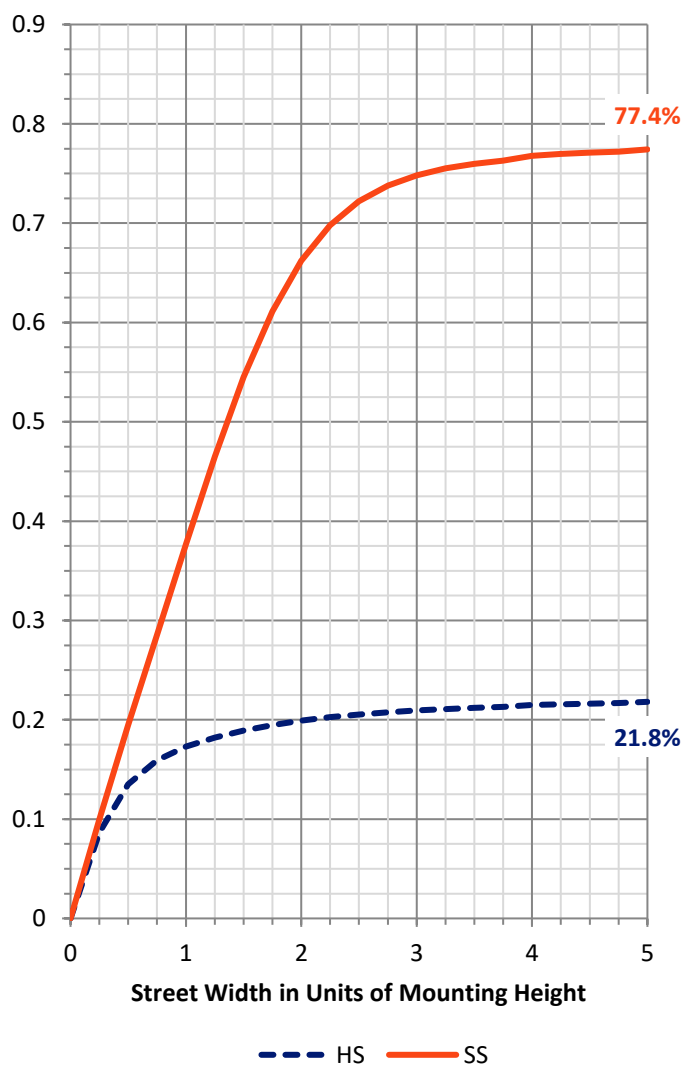
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.3	0.0	1241.3
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4341.7	0.0	4341.7
	% Fixture	77.8	0.0	77.8
Total	Lumens	5583.0	0.0	5583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.0
10°-20°	187.4	3.4
20°-30°	312.5	5.6
30°-40°	453.8	8.1
40°-50°	694.1	12.4
50°-60°	1312.0	23.5
60°-70°	1695.3	30.4
70°-80°	762.0	13.6
80°-90°	108.7	1.9
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°	5583.0	100.0
0°-180°	5583.0	100.0

Coefficient of Utilization

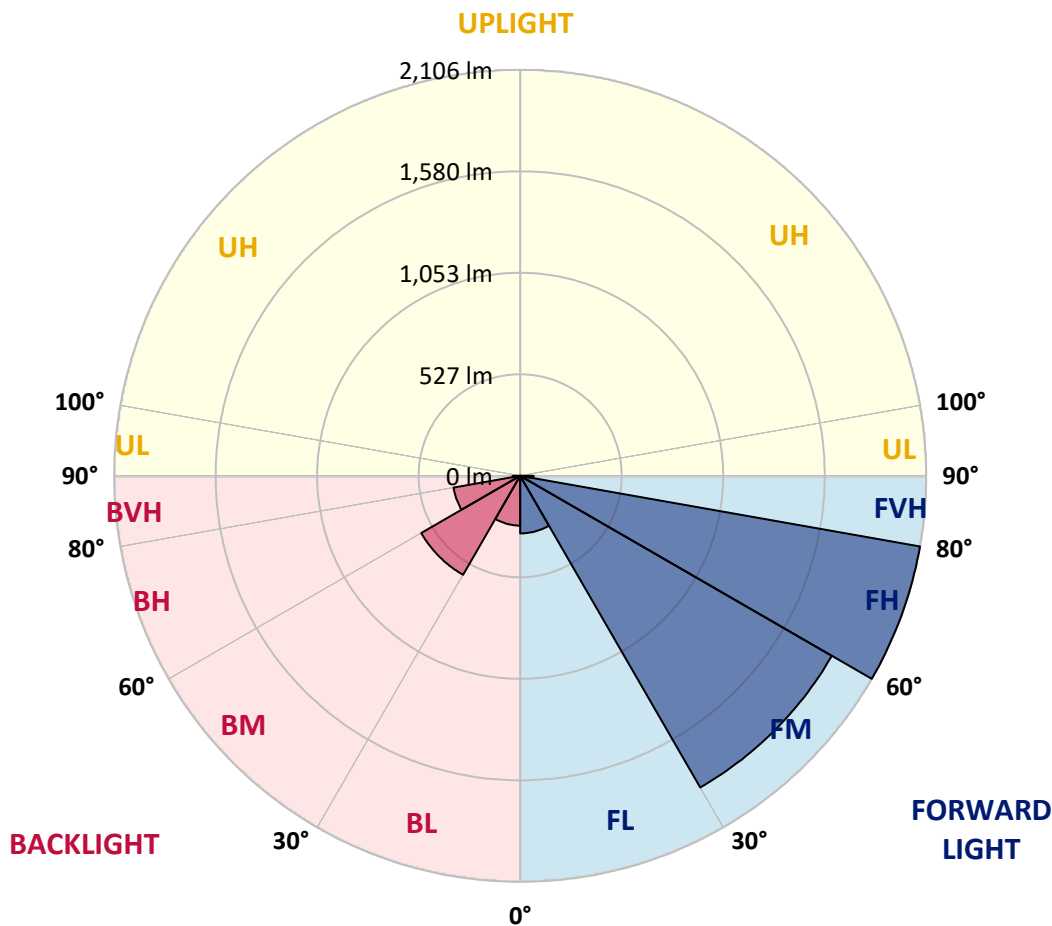


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.7	5.4			
FM (30°-60°)	1867.1	33.4			
FH (60°-80°)	2106.1	37.7			G2/5000
FVH (80°-90°)	69.8	1.3			G1/100
BL (0°-30°)	258.3	4.6	B1/500		
BM (30°-60°)	592.9	10.6	B1/1000		
BH (60°-80°)	351.2	6.3	B1/500		G1/500
BVH (80°-90°)	38.9	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	593.1	588.6	585.5	584.0	581.0	574.9	574.9	573.4	567.3	564.3	562.8
5°	640.1	637.1	629.5	623.5	614.4	602.2	600.7	591.6	579.5	570.4	564.3
7.5°	685.6	682.6	675.0	665.9	650.8	635.6	631.0	618.9	599.2	585.5	574.9
10°	725.1	720.5	711.4	699.3	682.6	665.9	661.4	647.7	628.0	608.3	590.1
12.5°	750.9	747.8	737.2	722.1	703.9	687.2	684.1	672.0	652.3	631.0	608.3
15°	763.0	761.5	749.4	734.2	716.0	702.3	700.8	690.2	673.5	652.3	626.5
17.5°	760.0	758.5	747.8	732.7	719.0	711.4	711.4	703.9	690.2	672.0	644.7
20°	744.8	744.8	735.7	725.1	717.5	716.0	716.0	714.5	705.4	690.2	662.9
22.5°	729.6	729.6	723.6	716.0	714.5	720.5	722.1	725.1	722.1	709.9	685.6
25°	732.7	731.2	723.6	714.5	716.0	729.6	732.7	740.3	738.7	729.6	708.4
27.5°	766.0	764.5	744.8	726.6	725.1	741.8	744.8	755.4	755.4	747.8	734.2
30°	849.5	852.5	816.1	770.6	747.8	758.5	761.5	773.6	779.7	782.7	772.1
32.5°	976.9	972.3	917.7	843.4	793.4	782.7	787.3	797.9	819.1	825.2	799.4
35°	1105.8	1108.9	1055.8	961.7	866.2	826.7	823.7	838.9	870.7	843.4	797.9
37.5°	1225.7	1221.1	1158.9	1057.3	961.7	916.2	917.7	911.7	884.4	829.8	808.5
40°	1356.1	1344.0	1292.4	1162.0	1040.6	964.8	951.1	899.5	876.8	854.0	851.0
42.5°	1485.1	1486.6	1444.1	1315.2	1134.7	999.7	978.4	925.3	940.5	935.9	932.9
45°	1647.4	1647.4	1604.9	1485.1	1283.3	1130.1	1101.3	1037.6	1061.8	1080.0	1116.5
47.5°	1796.0	1786.9	1774.8	1673.2	1477.5	1300.0	1287.9	1215.1	1278.8	1334.9	1409.2
50°	1953.8	1941.7	1934.1	1871.9	1732.3	1557.9	1521.5	1445.6	1585.2	1689.9	1827.9
52.5°	2199.5	2178.3	2138.9	2104.0	2049.4	1847.6	1802.1	1746.0	1926.5	2058.5	2340.6
55°	2421.0	2402.8	2364.9	2390.7	2383.1	2199.5	2160.1	2107.0	2302.7	2463.5	2786.6
57.5°	2502.9	2504.4	2556.0	2694.1	2766.9	2660.7	2604.6	2551.5	2716.8	2791.1	3082.4
60°	2540.8	2536.3	2669.8	2894.3	3130.9	3162.8	3091.5	2982.3	3044.5	3049.0	3332.7
62.5°	2458.9	2471.1	2654.6	2977.7	3349.4	3578.4	3567.8	3376.7	3319.0	3255.3	3399.4
65°	2148.0	2164.6	2434.7	2829.1	3384.3	3830.2	3840.8	3617.9	3457.1	3279.6	3209.8
66°	1911.3	1961.4	2261.7	2700.1	3320.5	3856.0	3875.7	3643.6	3451.0	3221.9	3059.6
67.5°	1603.4	1600.4	1935.6	2416.5	3143.1	3833.3	3859.1	3607.2	3369.1	3052.0	2759.3
70°	981.4	1011.8	1300.0	1803.6	2601.5	3549.6	3584.5	3350.9	3015.6	2584.8	2040.3
72.5°	503.6	553.7	743.3	1172.6	1888.6	2933.7	3052.0	2813.9	2465.0	1870.4	1245.4
75°	267.0	263.9	350.4	635.6	1206.0	2201.1	2263.2	2110.0	1703.5	1114.9	634.1
77.5°	142.6	150.2	183.5	326.1	662.9	1406.2	1485.1	1360.7	970.8	570.4	303.4
80°	97.1	101.6	124.4	183.5	359.5	763.0	835.8	725.1	508.2	270.0	142.6
82.5°	62.2	65.2	84.9	113.8	215.4	370.1	389.8	371.6	248.8	153.2	86.5
85°	37.9	39.4	51.6	72.8	135.0	150.2	156.2	157.8	139.6	100.1	47.0
87.5°	18.2	19.7	28.8	36.4	63.7	54.6	50.1	51.6	77.4	59.2	21.2
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°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	561.3	559.7	556.7	555.2	556.7	556.7	556.7	558.2	561.3	561.3	562.8
5°	561.3	558.2	555.2	555.2	558.2	561.3	564.3	570.4	573.4	574.9	574.9
7.5°	568.8	565.8	562.8	562.8	567.3	573.4	579.5	587.0	594.6	600.7	600.7
10°	584.0	579.5	576.4	577.9	585.5	593.1	600.7	609.8	617.4	625.0	625.0
12.5°	600.7	596.2	591.6	594.6	605.3	614.4	621.9	626.5	634.1	640.1	640.1
15°	617.4	609.8	608.3	614.4	625.0	631.0	634.1	634.1	637.1	643.2	643.2
17.5°	635.6	628.0	626.5	632.6	641.7	641.7	635.6	631.0	629.5	634.1	635.6
20°	653.8	646.2	646.2	650.8	649.2	638.6	628.0	620.4	614.4	618.9	620.4
22.5°	676.5	669.0	665.9	659.9	646.2	625.0	608.3	599.2	594.6	597.7	600.7
25°	699.3	693.2	685.6	664.4	632.6	599.2	577.9	570.4	571.9	577.9	581.0
27.5°	728.1	725.1	706.9	661.4	608.3	562.8	541.5	540.0	546.1	555.2	559.7
30°	763.0	758.5	726.6	652.3	574.9	520.3	505.1	508.2	517.3	524.9	529.4
32.5°	787.3	784.2	735.7	631.0	534.0	482.4	470.2	470.2	474.8	485.4	490.0
35°	794.9	807.0	741.8	599.2	485.4	449.0	436.9	429.3	429.3	438.4	441.4
37.5°	820.7	848.0	744.8	556.7	446.0	418.7	403.5	389.8	385.3	383.8	383.8
40°	879.8	911.7	743.3	502.1	408.1	388.3	370.1	355.0	342.8	326.1	327.7
42.5°	983.0	1007.2	738.7	444.5	374.7	361.0	342.8	324.6	304.9	286.7	285.2
45°	1181.7	1145.3	726.6	394.4	344.3	336.8	320.1	298.8	274.6	257.9	257.9
47.5°	1495.7	1395.6	719.0	347.4	317.0	315.5	300.4	277.6	253.3	241.2	239.7
50°	1926.5	1741.4	731.2	314.0	292.8	297.3	285.2	263.9	244.2	233.6	232.1
52.5°	2421.0	2113.1	744.8	292.8	274.6	283.7	277.6	257.9	238.2	229.1	227.5
55°	2803.3	2414.9	725.1	273.0	256.4	270.0	270.0	251.8	235.1	226.0	226.0
57.5°	3071.8	2536.3	656.8	254.8	241.2	257.9	262.4	248.8	233.6	230.6	230.6
60°	3187.1	2530.2	537.0	238.2	230.6	245.7	257.9	245.7	236.6	244.2	245.7
62.5°	3124.9	2398.3	417.2	226.0	223.0	242.7	262.4	257.9	247.3	253.3	256.4
65°	2844.2	2166.2	314.0	215.4	213.9	244.2	274.6	265.5	239.7	241.2	242.7
66°	2686.5	2009.9	288.2	212.4	210.9	245.7	280.6	262.4	233.6	236.6	235.1
67.5°	2349.7	1764.2	253.3	206.3	204.8	245.7	288.2	256.4	226.0	230.6	226.0
70°	1723.2	1248.4	216.9	198.7	195.7	241.2	286.7	244.2	209.3	206.3	198.7
72.5°	999.7	755.4	192.6	189.6	182.0	212.4	268.5	224.5	191.1	182.0	174.4
75°	491.5	383.8	171.4	179.0	159.3	186.6	242.7	207.8	176.0	163.8	159.3
77.5°	226.0	194.2	154.7	163.8	141.1	160.8	221.5	189.6	156.2	138.0	133.5
80°	122.9	121.4	130.5	136.5	118.3	141.1	195.7	165.3	132.0	112.3	106.2
82.5°	75.8	77.4	95.6	104.7	92.5	122.9	172.9	138.0	100.1	78.9	80.4
85°	39.4	44.0	63.7	69.8	60.7	91.0	130.5	92.5	56.1	41.0	41.0
87.5°	13.7	18.2	31.9	37.9	33.4	54.6	81.9	44.0	12.1	0.0	0.0
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)