

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: P573356

Luminaire Tested: **ARCH-S-PA2-60-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573356
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-PA2-60-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7545 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

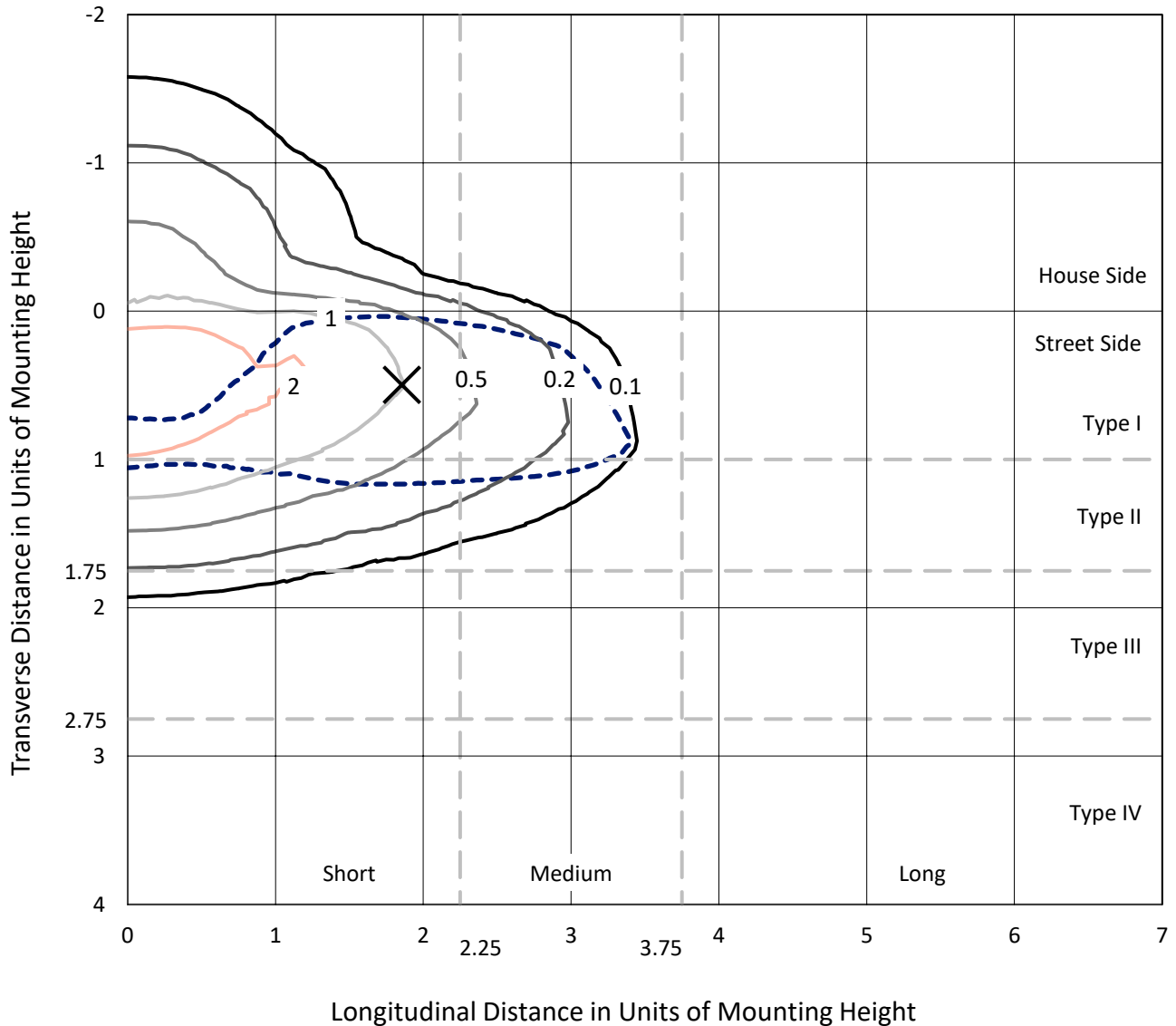
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

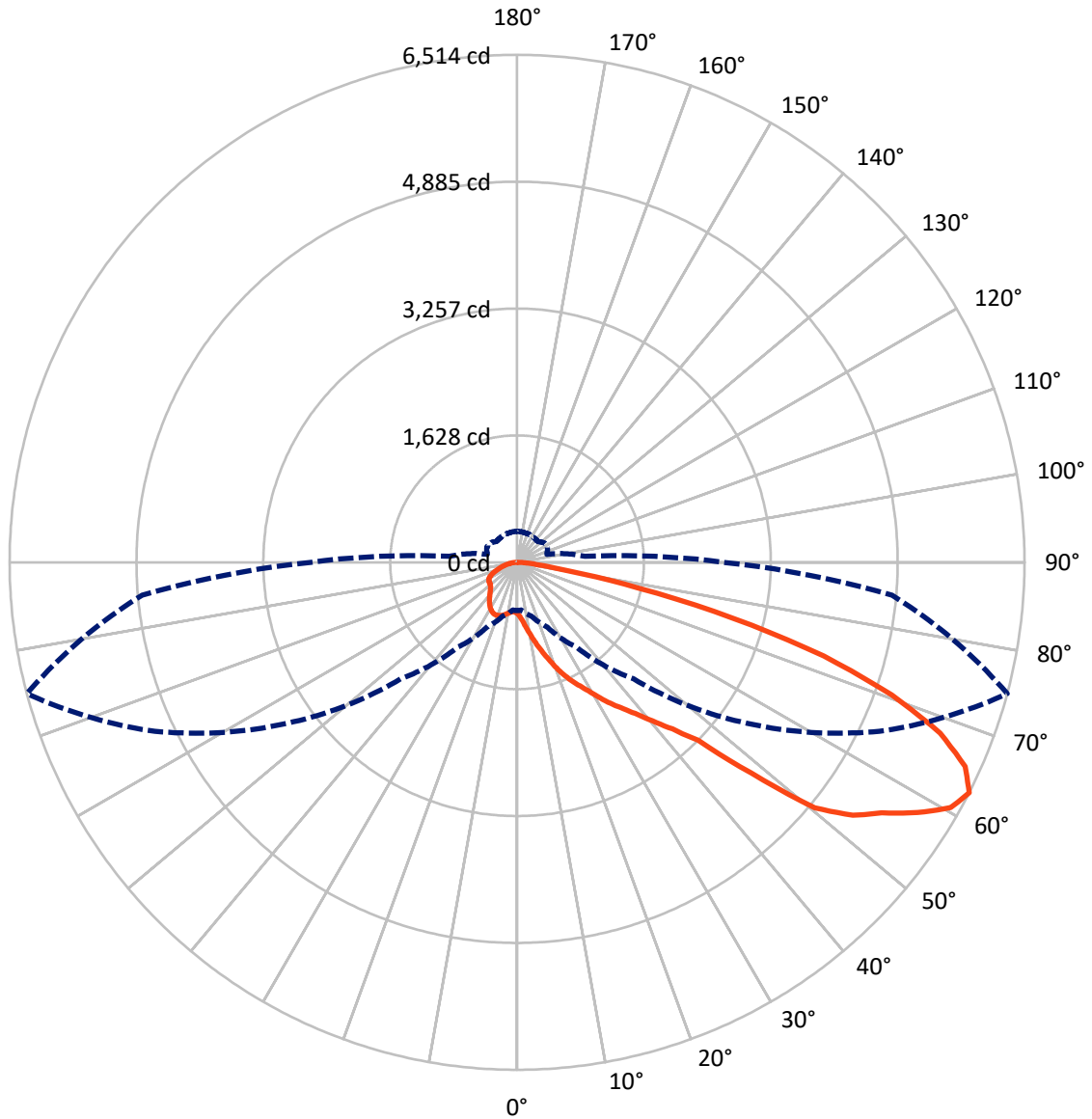
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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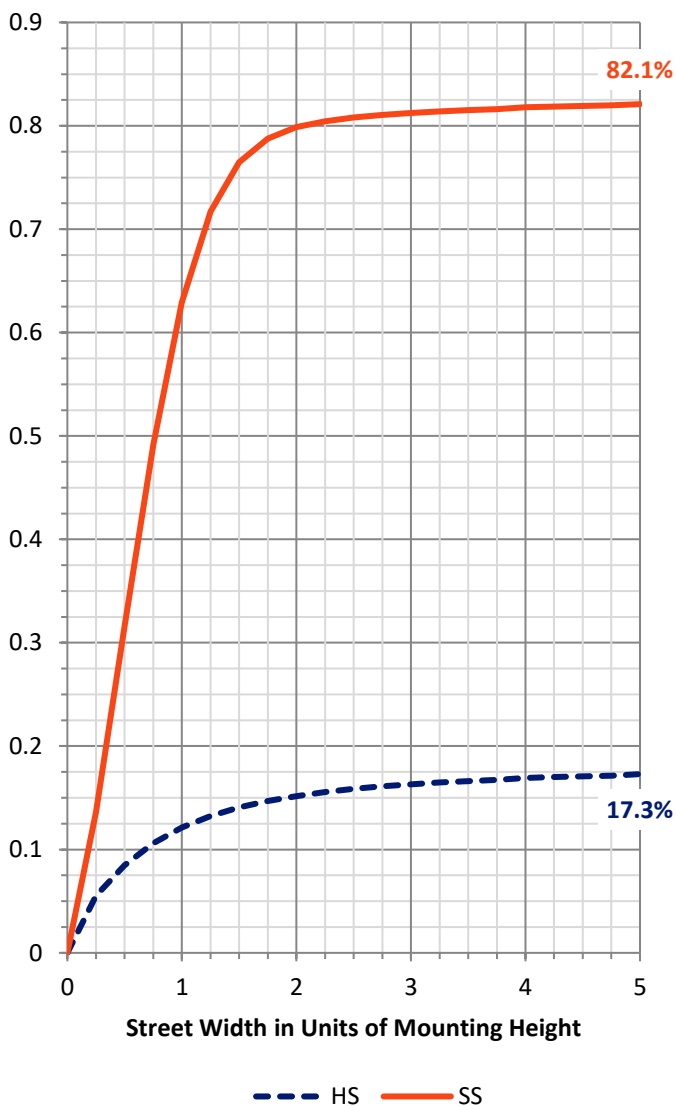
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.7	0.0	1330.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	6214.3	0.0	6214.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	7545.0	0.0	7545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.0
10°-20°	312.2	4.1
20°-30°	617.7	8.2
30°-40°	1029.6	13.6
40°-50°	1519.3	20.1
50°-60°	1826.3	24.2
60°-70°	1419.4	18.8
70°-80°	627.9	8.3
80°-90°	113.7	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°	7545.0	100.0
0°-180°	7545.0	100.0

Coefficient of Utilization



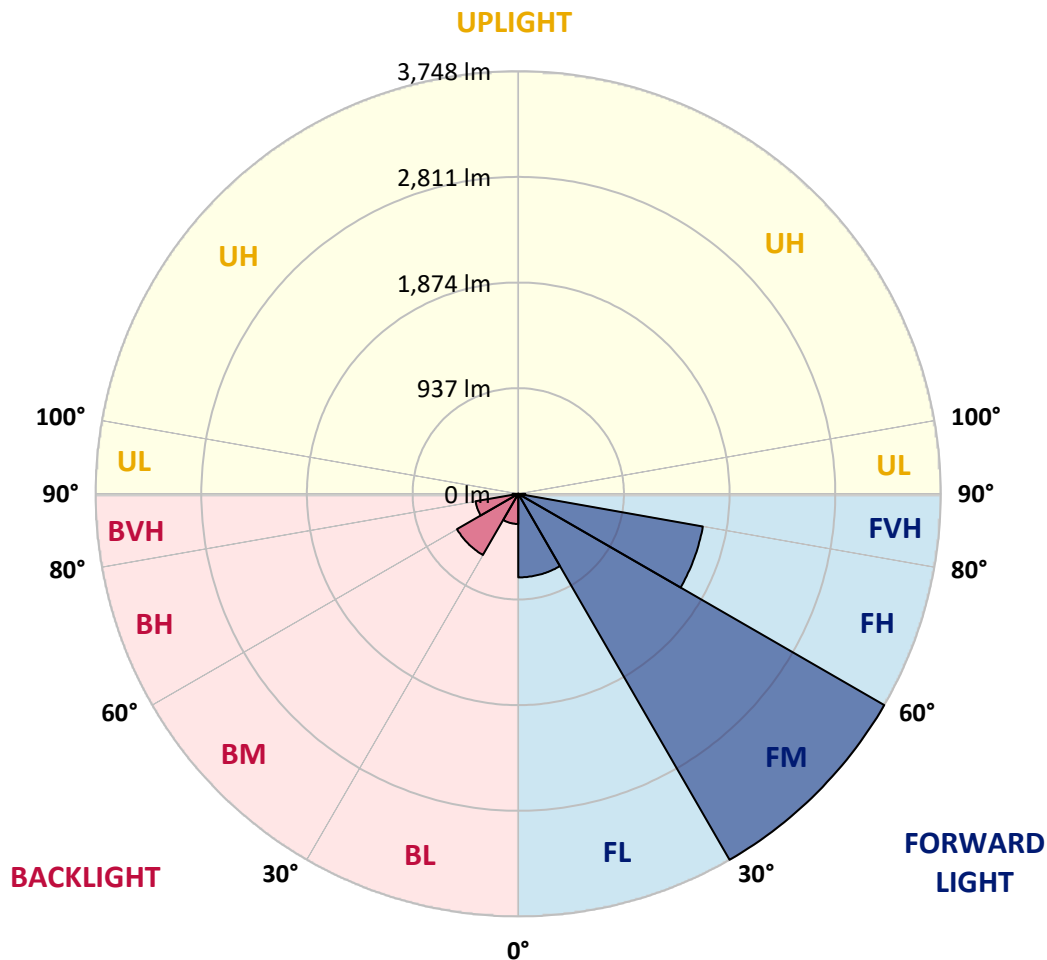
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.1	9.8			
FM (30°-60°)	3748.4	49.7			
FH (60°-80°)	1662.3	22.0			G1/1800
FVH (80°-90°)	62.5	0.8			G1/100
BL (0°-30°)	267.8	3.5	B1/500		
BM (30°-60°)	626.8	8.3	B1/1000		
BH (60°-80°)	385.0	5.1	B1/500		G1/500
BVH (80°-90°)	51.2	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°	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7
2.5°	840.9	816.5	816.5	790.0	792.1	769.7	745.2	720.8	694.3	674.0	663.8
5°	1099.5	1081.2	1075.1	1044.5	995.7	940.7	881.6	820.6	757.4	708.6	684.1
7.5°	1341.8	1327.6	1319.4	1284.8	1217.6	1158.6	1064.9	952.9	845.0	753.4	716.7
10°	1521.0	1510.8	1494.5	1478.2	1429.4	1378.5	1262.4	1103.6	944.8	808.3	753.4
12.5°	1651.3	1637.1	1637.1	1635.0	1602.4	1555.6	1447.7	1276.7	1060.8	869.4	794.1
15°	1738.9	1736.8	1742.9	1755.2	1747.0	1716.5	1608.6	1435.5	1178.9	938.7	840.9
17.5°	1804.0	1795.9	1808.1	1840.7	1865.1	1852.9	1763.3	1588.2	1309.2	1014.0	891.8
20°	1875.3	1859.0	1875.3	1916.0	1946.5	1964.9	1922.1	1734.8	1449.7	1095.4	940.7
22.5°	2011.7	2009.7	2001.5	2013.7	2034.1	2066.7	2042.2	1883.4	1586.2	1176.9	997.7
25°	2256.0	2233.6	2211.2	2184.8	2162.4	2172.6	2152.2	2021.9	1710.4	1266.5	1046.6
27.5°	2528.9	2504.5	2463.7	2398.6	2337.5	2300.8	2258.1	2142.0	1830.5	1347.9	1093.4
30°	2779.3	2771.2	2710.1	2638.8	2533.0	2465.8	2384.3	2280.5	1975.1	1437.5	1142.3
32.5°	3013.5	2997.2	2936.1	2860.8	2736.6	2661.2	2549.2	2431.2	2140.0	1547.5	1193.2
35°	3215.1	3198.8	3127.5	3031.8	2923.9	2858.7	2730.5	2565.5	2290.7	1643.2	1235.9
37.5°	3367.8	3349.4	3282.3	3188.6	3092.9	3062.4	2952.4	2736.6	2461.7	1763.3	1288.9
40°	3453.3	3430.9	3386.1	3320.9	3241.5	3227.3	3180.4	2948.3	2677.5	1909.9	1366.2
42.5°	3463.5	3443.1	3418.7	3412.6	3406.5	3418.7	3441.1	3188.6	2923.9	2105.4	1480.3
45°	3373.9	3361.7	3363.7	3432.9	3528.6	3640.6	3775.0	3542.9	3255.8	2478.0	1736.8
47.5°	3182.5	3176.4	3221.2	3337.2	3551.0	3805.5	4186.3	4149.7	4041.7	3078.6	2066.7
50°	2873.0	2862.8	2958.5	3141.8	3447.2	3860.5	4463.2	4864.3	4953.9	3544.9	2282.5
52.5°	2429.1	2441.3	2590.0	2840.4	3209.0	3801.5	4577.2	5157.5	5393.7	3889.0	2447.4
55°	1975.1	1956.7	2091.1	2400.6	2856.7	3585.6	4599.6	5326.5	5678.8	4206.7	2608.3
57.5°	1439.6	1484.3	1626.9	1907.9	2402.6	3194.7	4469.3	5442.6	6061.6	4524.3	2756.9
60°	975.3	975.3	1101.6	1382.5	1857.0	2720.3	4121.1	5399.8	6395.5	4772.7	2789.5
62.5°	621.0	614.9	716.7	916.3	1329.6	2113.5	3599.9	5131.1	6513.6	4831.8	2653.1
65°	393.0	401.1	437.8	559.9	851.1	1500.6	2889.3	4595.6	6320.2	4695.3	2414.9
67.5°	315.6	317.6	336.0	386.9	523.3	963.1	2142.0	3856.4	5858.0	4351.2	2135.9
70°	279.0	283.0	287.1	305.4	358.4	608.8	1407.0	3105.1	5100.5	3752.6	1836.6
72.5°	254.5	258.6	262.7	266.7	295.2	397.0	830.7	2353.8	4115.0	2883.2	1400.9
75°	234.2	238.2	238.2	240.3	256.6	295.2	456.1	1622.8	2864.8	1793.8	873.5
77.5°	209.7	211.8	211.8	215.8	232.1	232.1	283.0	1003.8	1590.2	812.4	441.8
80°	177.1	181.2	181.2	187.3	203.6	179.2	189.4	513.1	659.7	333.9	197.5
82.5°	130.3	138.5	142.5	152.7	162.9	136.4	136.4	258.6	279.0	148.6	105.9
85°	71.3	73.3	105.9	114.0	120.1	81.4	91.6	128.3	138.5	65.2	52.9
87.5°	20.4	22.4	50.9	63.1	57.0	34.6	38.7	48.9	48.9	18.3	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7	657.7
2.5°	655.6	639.3	625.1	614.9	604.7	598.6	596.6	592.5	592.5	594.6
5°	663.8	635.3	612.9	600.7	592.5	588.4	586.4	586.4	588.4	588.4
7.5°	684.1	641.4	621.0	610.8	602.7	598.6	598.6	596.6	598.6	598.6
10°	712.6	659.7	637.3	625.1	619.0	612.9	610.8	608.8	608.8	608.8
12.5°	743.2	680.1	655.6	641.4	631.2	623.1	619.0	614.9	612.9	612.9
15°	771.7	700.4	667.9	651.6	637.3	625.1	617.0	610.8	608.8	608.8
17.5°	802.2	714.7	676.0	653.6	635.3	619.0	608.8	600.7	596.6	596.6
20°	834.8	724.9	676.0	647.5	623.1	606.8	594.6	586.4	578.3	578.3
22.5°	861.3	728.9	667.9	633.2	608.8	588.4	576.2	566.0	559.9	559.9
25°	883.7	724.9	649.5	610.8	582.3	564.0	551.8	543.6	537.5	537.5
27.5°	897.9	708.6	627.1	586.4	559.9	541.6	533.5	525.3	521.3	521.3
30°	906.1	688.2	598.6	559.9	533.5	523.3	519.2	511.1	505.0	502.9
32.5°	910.2	657.7	570.1	533.5	515.1	511.1	511.1	500.9	492.7	490.7
35°	906.1	625.1	541.6	511.1	505.0	507.0	502.9	490.7	480.5	476.5
37.5°	900.0	586.4	511.1	494.8	500.9	505.0	492.7	476.5	460.2	456.1
40°	895.9	551.8	486.6	478.5	496.8	498.9	476.5	445.9	433.7	429.6
42.5°	916.3	517.2	464.2	466.3	486.6	488.7	448.0	433.7	425.6	423.5
45°	985.5	486.6	445.9	458.1	474.4	466.3	433.7	431.7	425.6	423.5
47.5°	1038.4	464.2	437.8	452.0	464.2	435.7	431.7	429.6	423.5	421.5
50°	1056.8	450.0	435.7	448.0	450.0	421.5	427.6	427.6	421.5	419.4
52.5°	1058.8	441.8	439.8	445.9	427.6	415.4	423.5	423.5	417.4	415.4
55°	1066.9	437.8	441.8	445.9	403.2	407.2	415.4	417.4	411.3	409.3
57.5°	1050.6	431.7	445.9	448.0	393.0	399.1	407.2	407.2	407.2	407.2
60°	987.5	419.4	443.9	443.9	384.8	388.9	397.0	401.1	403.2	403.2
62.5°	871.5	395.0	431.7	431.7	376.7	380.8	390.9	390.9	397.0	397.0
65°	724.9	360.4	407.2	405.2	368.5	372.6	384.8	380.8	390.9	393.0
67.5°	604.7	317.6	370.6	374.6	360.4	370.6	378.7	364.5	384.8	384.8
70°	482.6	266.7	321.7	340.0	346.1	372.6	366.5	344.1	370.6	364.5
72.5°	374.6	226.0	264.7	297.3	329.9	370.6	340.0	315.6	331.9	321.7
75°	272.8	187.3	217.9	246.4	307.5	364.5	313.6	276.9	276.9	272.8
77.5°	191.4	152.7	175.1	195.5	285.1	348.2	281.0	238.2	228.0	226.0
80°	130.3	120.1	138.5	150.7	252.5	315.6	242.3	197.5	179.2	175.1
82.5°	85.5	85.5	93.7	101.8	195.5	262.7	189.4	146.6	189.4	181.2
85°	48.9	50.9	50.9	59.0	107.9	185.3	134.4	146.6	87.6	81.4
87.5°	16.3	16.3	16.3	16.3	22.4	75.3	57.0	52.9	20.4	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)