

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: P573077

Luminaire Tested: **ARCH-S-PA2-30-740-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573077
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-PA2-30-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

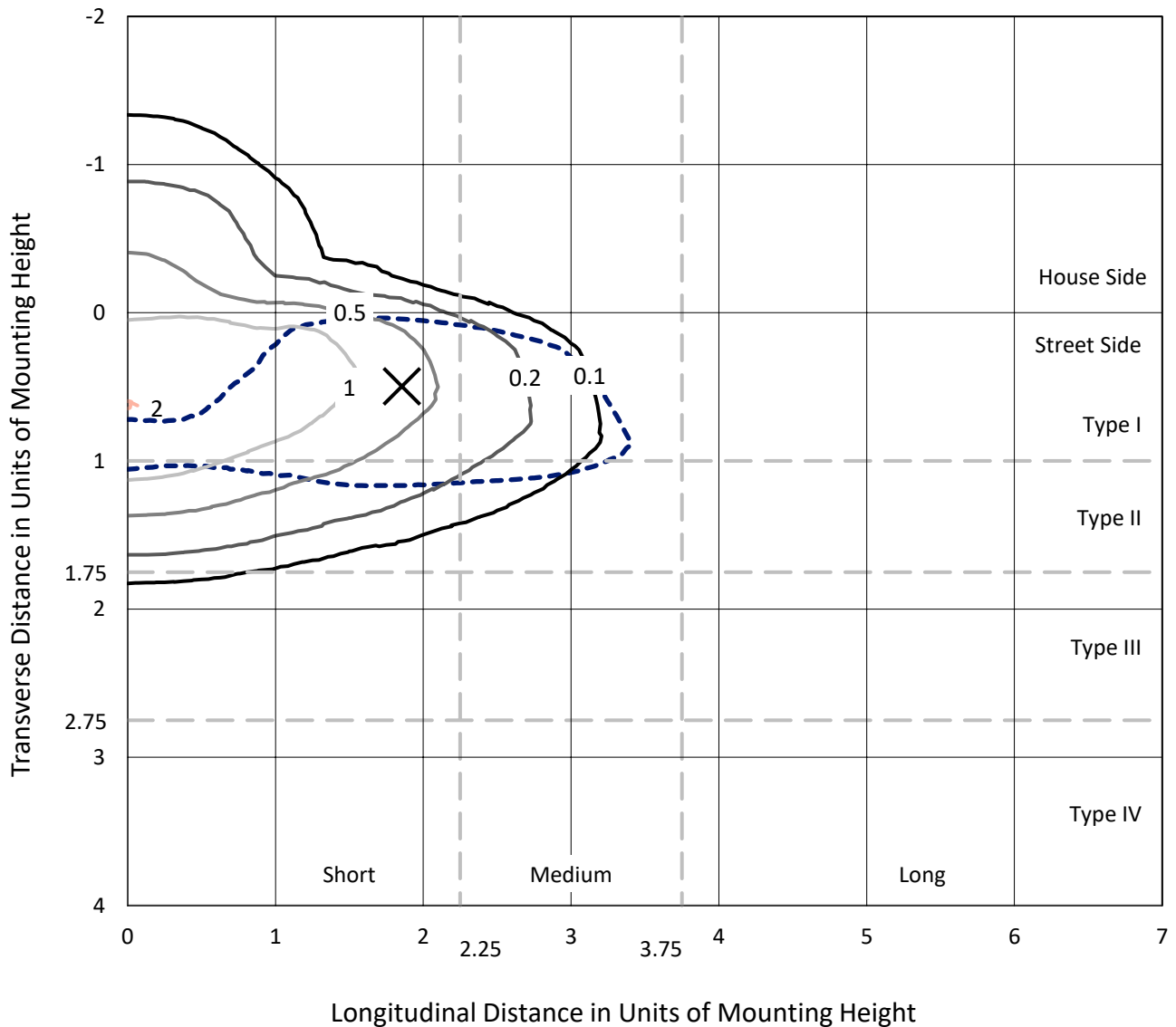
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

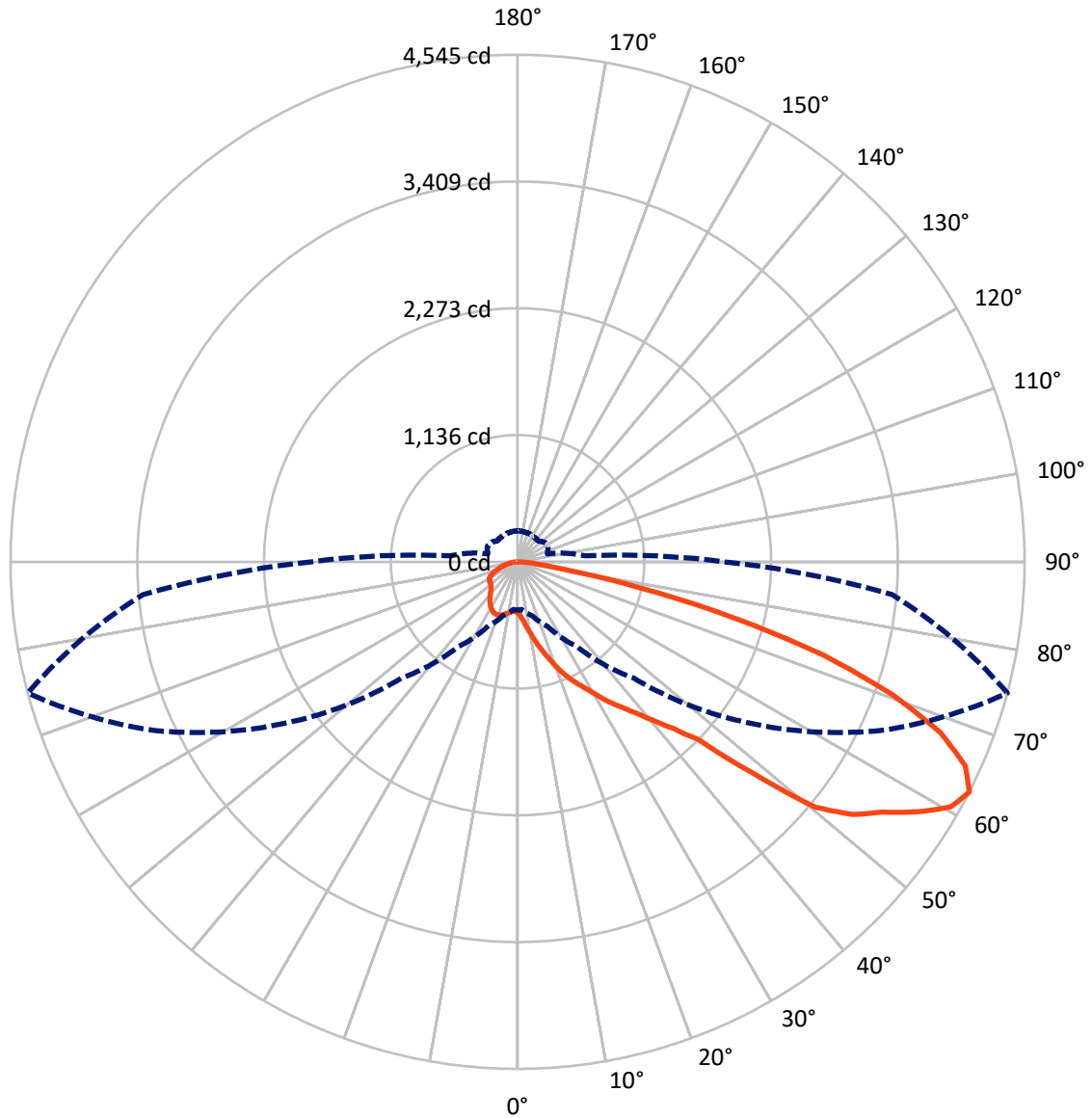
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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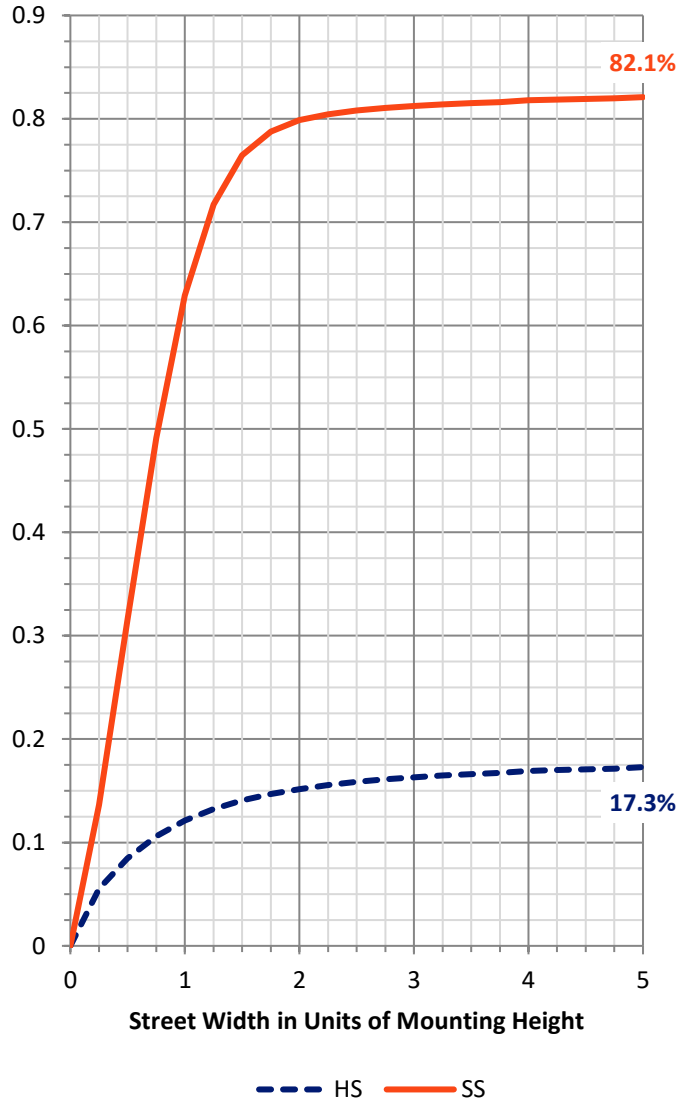
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.6	0.0	928.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	4336.4	0.0	4336.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	5265.0	0.0	5265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.0
10°-20°	217.9	4.1
20°-30°	431.0	8.2
30°-40°	718.4	13.6
40°-50°	1060.2	20.1
50°-60°	1274.4	24.2
60°-70°	990.5	18.8
70°-80°	438.2	8.3
80°-90°	79.3	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°	5265.0	100.0
0°-180°	5265.0	100.0

Coefficient of Utilization



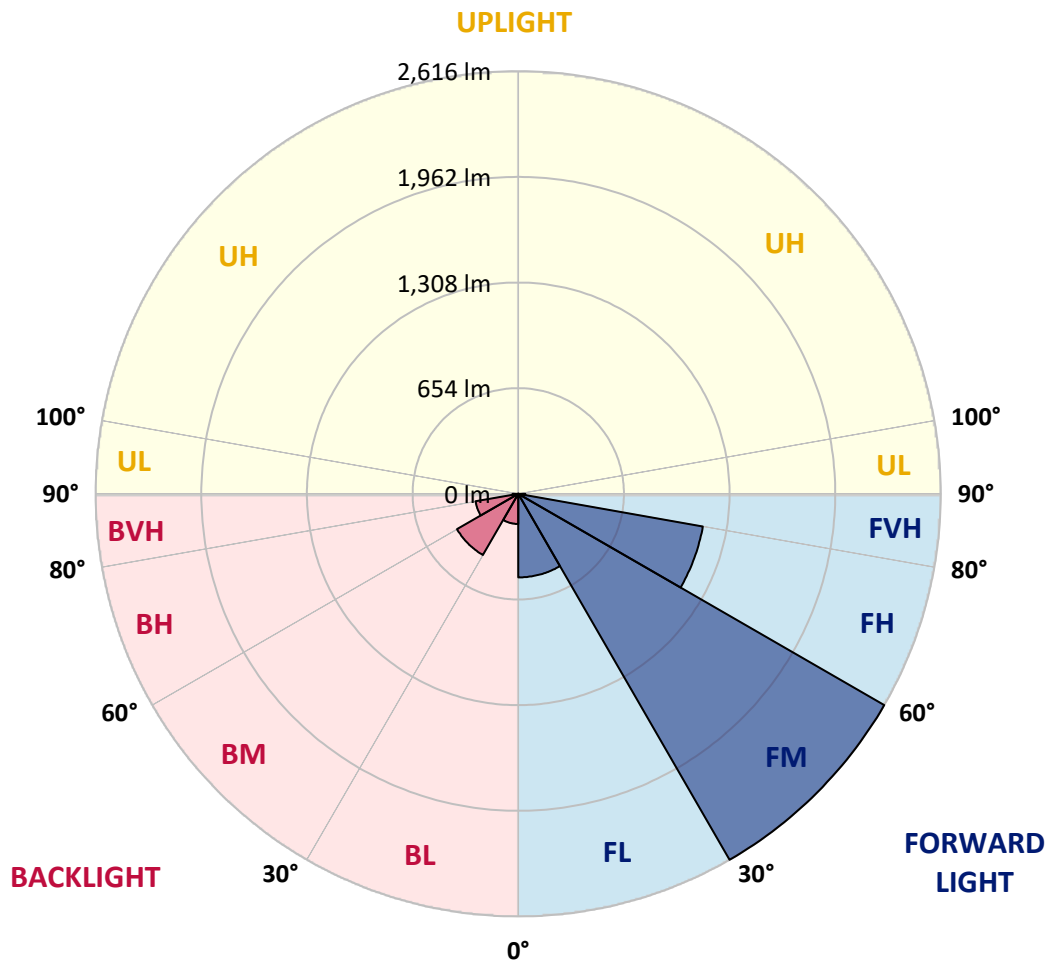
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.2	9.8			
FM (30°-60°)	2615.7	49.7			
FH (60°-80°)	1160.0	22.0			G1/1800
FVH (80°-90°)	43.6	0.8			G1/100
BL (0°-30°)	186.8	3.5	B1/500		
BM (30°-60°)	437.4	8.3	B1/1000		
BH (60°-80°)	268.7	5.1	B1/500		G1/500
BVH (80°-90°)	35.7	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°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9
2.5°	586.8	569.8	569.8	551.3	552.7	537.1	520.0	503.0	484.5	470.3	463.2
5°	767.3	754.5	750.2	728.9	694.8	656.4	615.2	572.6	528.6	494.5	477.4
7.5°	936.3	926.4	920.7	896.6	849.7	808.5	743.1	665.0	589.7	525.7	500.1
10°	1061.4	1054.3	1042.9	1031.5	997.4	961.9	880.9	770.1	659.3	564.1	525.7
12.5°	1152.3	1142.4	1142.4	1140.9	1118.2	1085.5	1010.2	890.9	740.3	606.7	554.1
15°	1213.4	1212.0	1216.2	1224.8	1219.1	1197.8	1122.5	1001.7	822.7	655.0	586.8
17.5°	1258.9	1253.2	1261.7	1284.4	1301.5	1293.0	1230.5	1108.3	913.6	707.6	622.3
20°	1308.6	1297.2	1308.6	1337.0	1358.3	1371.1	1341.3	1210.6	1011.6	764.4	656.4
22.5°	1403.8	1402.4	1396.7	1405.2	1419.4	1442.2	1425.1	1314.3	1106.8	821.2	696.2
25°	1574.3	1558.7	1543.0	1524.6	1508.9	1516.0	1501.8	1410.9	1193.5	883.8	730.3
27.5°	1764.7	1747.6	1719.2	1673.8	1631.1	1605.6	1575.7	1494.7	1277.3	940.6	763.0
30°	1939.5	1933.8	1891.1	1841.4	1767.5	1720.6	1663.8	1591.3	1378.2	1003.1	797.1
32.5°	2102.9	2091.5	2048.9	1996.3	1909.6	1857.0	1778.9	1696.5	1493.3	1079.8	832.6
35°	2243.5	2232.1	2182.4	2115.6	2040.3	1994.9	1905.4	1790.3	1598.5	1146.6	862.5
37.5°	2350.1	2337.3	2290.4	2225.0	2158.3	2137.0	2060.2	1909.6	1717.8	1230.5	899.4
40°	2409.8	2394.1	2362.9	2317.4	2262.0	2252.0	2219.4	2057.4	1868.4	1332.8	953.4
42.5°	2416.9	2402.6	2385.6	2381.3	2377.1	2385.6	2401.2	2225.0	2040.3	1469.2	1033.0
45°	2354.3	2345.8	2347.2	2395.5	2462.3	2540.5	2634.2	2472.3	2271.9	1729.2	1212.0
47.5°	2220.8	2216.5	2247.8	2328.8	2478.0	2655.6	2921.3	2895.7	2820.4	2148.3	1442.2
50°	2004.8	1997.7	2064.5	2192.4	2405.5	2693.9	3114.5	3394.4	3456.9	2473.7	1592.8
52.5°	1695.1	1703.6	1807.3	1982.1	2239.3	2652.7	3194.1	3599.0	3763.8	2713.8	1707.9
55°	1378.2	1365.4	1459.2	1675.2	1993.4	2502.1	3209.7	3716.9	3962.7	2935.5	1820.1
57.5°	1004.5	1035.8	1135.3	1331.3	1676.6	2229.3	3118.8	3797.9	4229.9	3157.1	1923.8
60°	680.6	680.6	768.7	964.8	1295.8	1898.2	2875.8	3768.1	4462.9	3330.5	1946.6
62.5°	433.4	429.1	500.1	639.4	927.8	1474.8	2512.1	3580.5	4545.3	3371.7	1851.4
65°	274.2	279.9	305.5	390.7	593.9	1047.2	2016.2	3206.8	4410.3	3276.5	1685.1
67.5°	220.2	221.7	234.4	270.0	365.2	672.1	1494.7	2691.1	4087.8	3036.3	1490.5
70°	194.7	197.5	200.3	213.1	250.1	424.8	981.8	2166.8	3559.2	2618.6	1281.6
72.5°	177.6	180.4	183.3	186.1	206.0	277.1	579.7	1642.5	2871.5	2011.9	977.5
75°	163.4	166.2	166.2	167.7	179.0	206.0	318.3	1132.4	1999.1	1251.8	609.5
77.5°	146.3	147.8	147.8	150.6	162.0	162.0	197.5	700.5	1109.7	566.9	308.3
80°	123.6	126.5	126.5	130.7	142.1	125.0	132.1	358.1	460.4	233.0	137.8
82.5°	90.9	96.6	99.5	106.6	113.7	95.2	95.2	180.4	194.7	103.7	73.9
85°	49.7	51.2	73.9	79.6	83.8	56.8	63.9	89.5	96.6	45.5	36.9
87.5°	14.2	15.6	35.5	44.0	39.8	24.2	27.0	34.1	34.1	12.8	9.9
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°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9
2.5°	457.5	446.1	436.2	429.1	422.0	417.7	416.3	413.5	413.5	414.9
5°	463.2	443.3	427.7	419.1	413.5	410.6	409.2	409.2	410.6	410.6
7.5°	477.4	447.6	433.4	426.3	420.6	417.7	417.7	416.3	417.7	417.7
10°	497.3	460.4	444.7	436.2	431.9	427.7	426.3	424.8	424.8	424.8
12.5°	518.6	474.6	457.5	447.6	440.5	434.8	431.9	429.1	427.7	427.7
15°	538.5	488.8	466.0	454.7	444.7	436.2	430.5	426.3	424.8	424.8
17.5°	559.8	498.7	471.7	456.1	443.3	431.9	424.8	419.1	416.3	416.3
20°	582.5	505.8	471.7	451.8	434.8	423.4	414.9	409.2	403.5	403.5
22.5°	601.0	508.7	466.0	441.9	424.8	410.6	402.1	395.0	390.7	390.7
25°	616.6	505.8	453.2	426.3	406.4	393.6	385.0	379.4	375.1	375.1
27.5°	626.6	494.5	437.6	409.2	390.7	377.9	372.3	366.6	363.7	363.7
30°	632.3	480.2	417.7	390.7	372.3	365.2	362.3	356.6	352.4	350.9
32.5°	635.1	458.9	397.8	372.3	359.5	356.6	356.6	349.5	343.8	342.4
35°	632.3	436.2	377.9	356.6	352.4	353.8	350.9	342.4	335.3	332.5
37.5°	628.0	409.2	356.6	345.3	349.5	352.4	343.8	332.5	321.1	318.3
40°	625.2	385.0	339.6	333.9	346.7	348.1	332.5	311.2	302.6	299.8
42.5°	639.4	360.9	324.0	325.4	339.6	341.0	312.6	302.6	297.0	295.5
45°	687.7	339.6	311.2	319.7	331.1	325.4	302.6	301.2	297.0	295.5
47.5°	724.6	324.0	305.5	315.4	324.0	304.1	301.2	299.8	295.5	294.1
50°	737.4	314.0	304.1	312.6	314.0	294.1	298.4	298.4	294.1	292.7
52.5°	738.8	308.3	306.9	311.2	298.4	289.9	295.5	295.5	291.3	289.9
55°	744.5	305.5	308.3	311.2	281.3	284.2	289.9	291.3	287.0	285.6
57.5°	733.2	301.2	311.2	312.6	274.2	278.5	284.2	284.2	284.2	284.2
60°	689.1	292.7	309.7	309.7	268.5	271.4	277.1	279.9	281.3	281.3
62.5°	608.1	275.6	301.2	301.2	262.9	265.7	272.8	272.8	277.1	277.1
65°	505.8	251.5	284.2	282.7	257.2	260.0	268.5	265.7	272.8	274.2
67.5°	422.0	221.7	258.6	261.4	251.5	258.6	264.3	254.3	268.5	268.5
70°	336.7	186.1	224.5	237.3	241.5	260.0	255.8	240.1	258.6	254.3
72.5°	261.4	157.7	184.7	207.4	230.2	258.6	237.3	220.2	231.6	224.5
75°	190.4	130.7	152.0	171.9	214.5	254.3	218.8	193.2	193.2	190.4
77.5°	133.6	106.6	122.2	136.4	198.9	243.0	196.1	166.2	159.1	157.7
80°	90.9	83.8	96.6	105.1	176.2	220.2	169.1	137.8	125.0	122.2
82.5°	59.7	59.7	65.4	71.0	136.4	183.3	132.1	102.3	132.1	126.5
85°	34.1	35.5	35.5	41.2	75.3	129.3	93.8	102.3	61.1	56.8
87.5°	11.4	11.4	11.4	11.4	15.6	52.6	39.8	36.9	14.2	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)