

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: P398095

Luminaire Tested: **ARCH-S-PA1-80-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-80-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8695 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

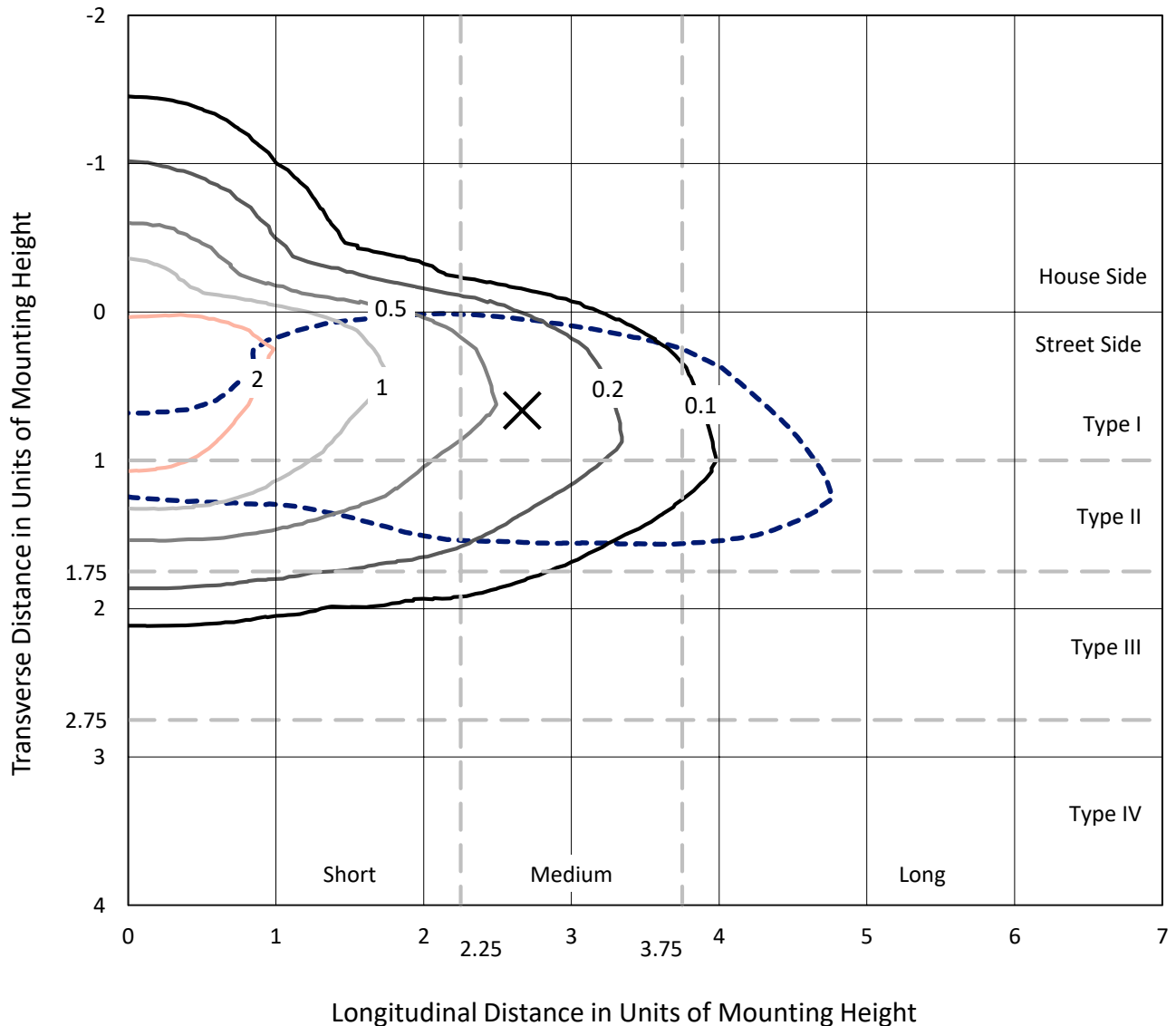
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

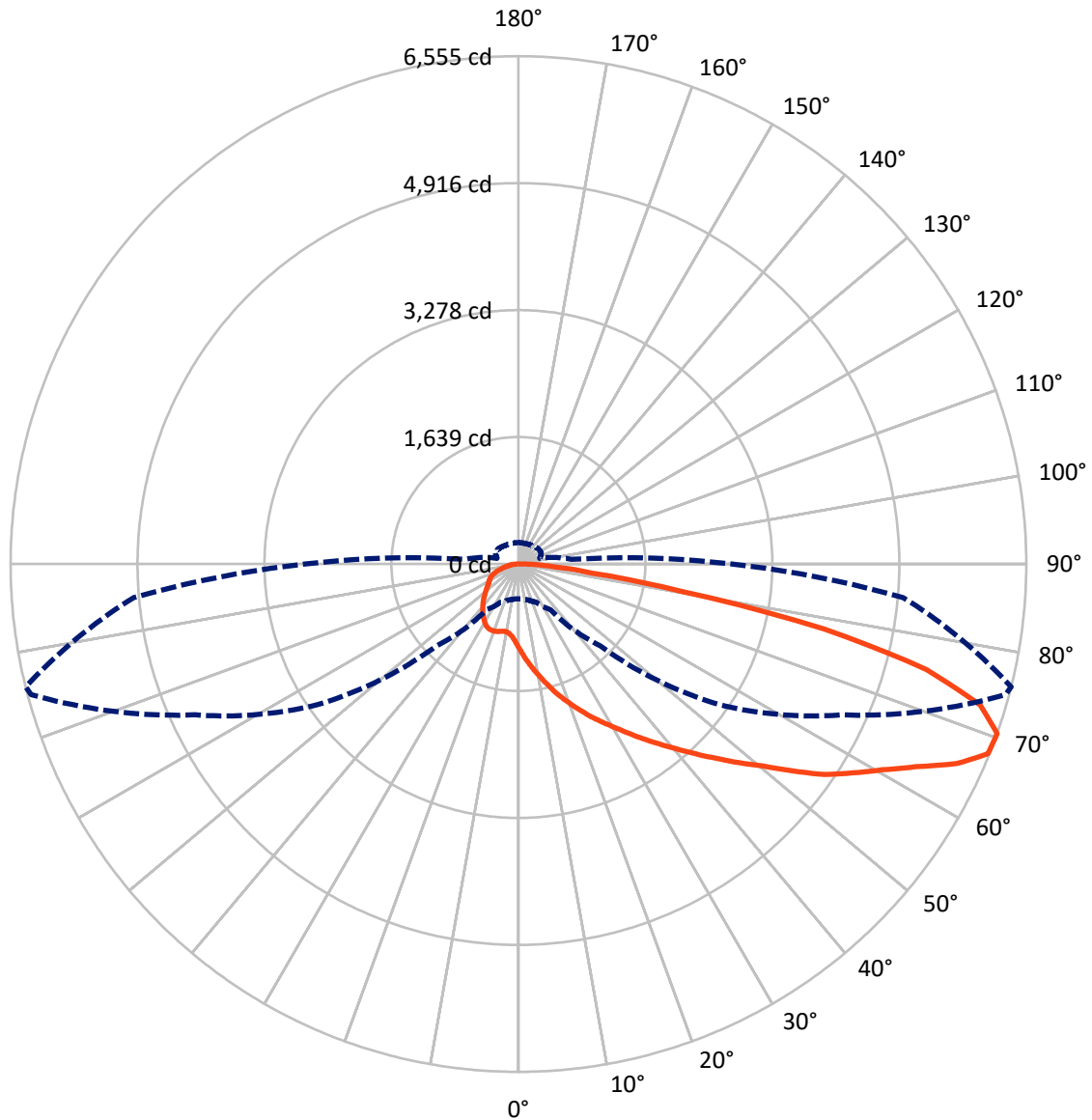


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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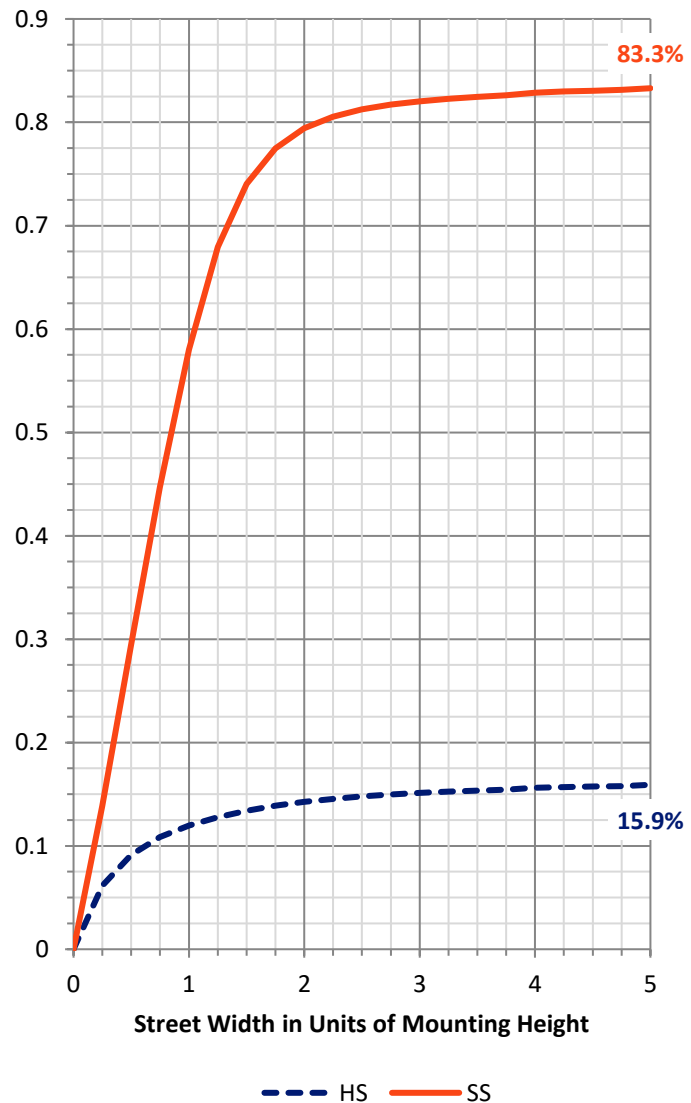
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1419.5	0.0	1419.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7275.5	0.0	7275.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	8695.0	0.0	8695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	1.3
10°-20°	384.0	4.4
20°-30°	687.0	7.9
30°-40°	1111.3	12.8
40°-50°	1607.7	18.5
50°-60°	1840.1	21.2
60°-70°	1692.7	19.5
70°-80°	1046.7	12.0
80°-90°	212.5	2.4
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°	8695.0	100.0
0°-180°	8695.0	100.0

Coefficient of Utilization



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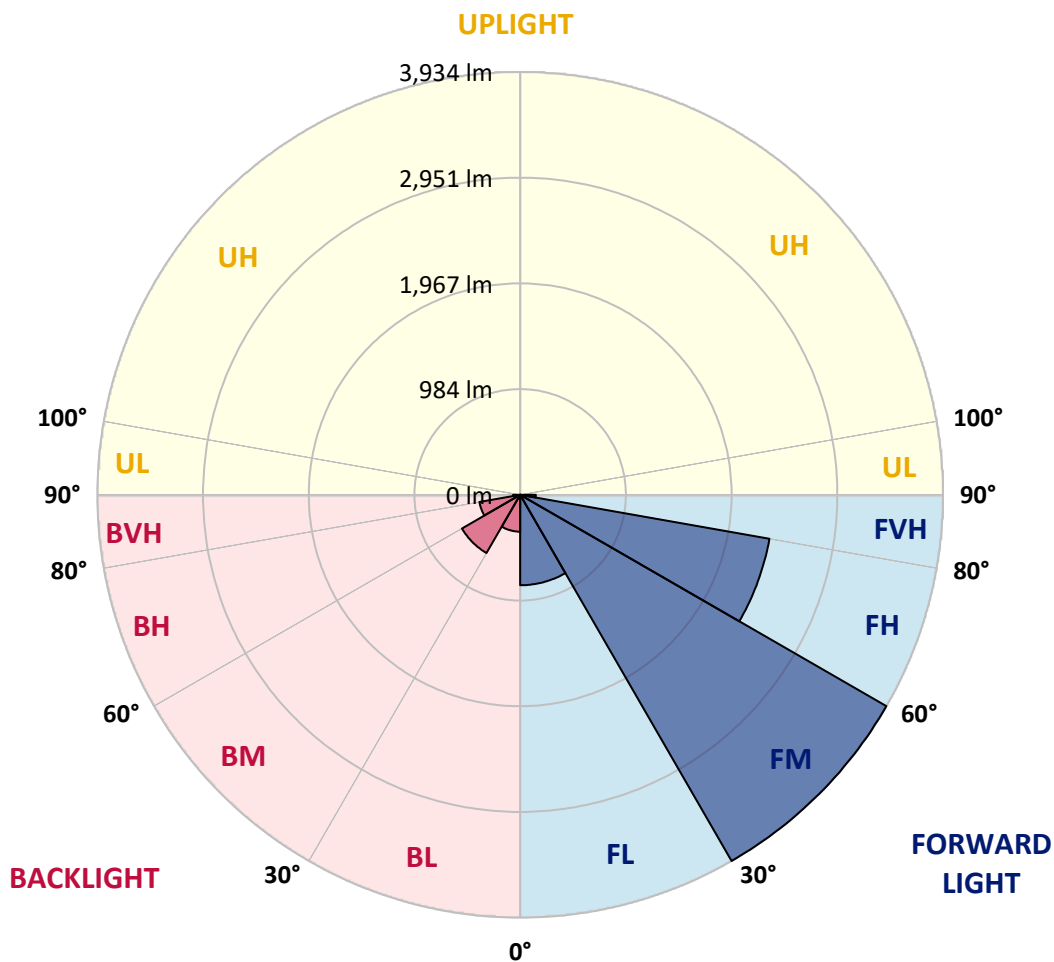
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.1	9.7			
FM (30°-60°)	3934.1	45.2			
FH (60°-80°)	2354.4	27.1			G2/5000
FVH (80°-90°)	145.9	1.7			G2/225
BL (0°-30°)	342.9	3.9	B1/500		
BM (30°-60°)	625.0	7.2	B1/1000		
BH (60°-80°)	385.0	4.4	B1/500		G1/500
BVH (80°-90°)	66.6	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1385.8	1375.5	1374.3	1358.3	1343.5	1303.4	1274.9	1224.6	1174.2	1173.1	1122.8
5°	1601.9	1591.6	1585.9	1566.4	1541.3	1488.7	1437.2	1359.5	1273.7	1268.0	1173.1
7.5°	1748.2	1739.1	1727.6	1719.6	1695.6	1648.7	1585.9	1493.2	1375.5	1364.0	1231.4
10°	1846.5	1840.8	1838.5	1832.8	1818.0	1780.2	1719.6	1621.3	1477.2	1464.7	1293.2
12.5°	1888.9	1886.6	1896.9	1912.9	1918.6	1903.7	1845.4	1752.8	1589.3	1575.6	1367.5
15°	1839.7	1842.0	1868.3	1923.2	1981.5	2013.5	1979.2	1888.9	1716.2	1696.8	1454.4
17.5°	1816.8	1820.2	1838.5	1891.1	1973.5	2072.9	2088.9	2018.1	1838.5	1811.1	1545.8
20°	1856.8	1861.4	1875.1	1916.3	1973.5	2079.8	2163.3	2141.5	1958.6	1930.0	1633.9
22.5°	1958.6	1964.3	1963.2	1989.5	2028.3	2101.5	2204.4	2258.2	2084.4	2052.4	1725.3
25°	2175.8	2171.3	2132.4	2119.8	2130.1	2177.0	2259.3	2370.2	2215.9	2183.8	1821.4
27.5°	2470.8	2465.1	2394.2	2330.2	2273.0	2293.6	2337.1	2460.5	2349.6	2313.0	1912.9
30°	2786.4	2779.5	2697.2	2593.2	2466.3	2436.5	2430.8	2539.4	2484.5	2445.7	2010.0
32.5°	3094.0	3088.2	3000.2	2879.0	2704.1	2614.9	2560.0	2627.5	2637.8	2600.0	2116.4
35°	3374.1	3374.1	3298.6	3154.6	2956.8	2821.8	2731.5	2736.1	2813.8	2770.4	2237.6
37.5°	3623.3	3622.2	3539.9	3398.1	3208.3	3053.9	2941.9	2867.6	2981.9	2944.2	2364.5
40°	3821.1	3813.1	3752.5	3629.1	3438.1	3284.9	3171.7	3021.9	3169.4	3135.1	2499.4
42.5°	3965.2	3960.6	3919.5	3812.0	3630.2	3486.1	3408.4	3216.3	3382.1	3347.8	2657.2
45°	4021.2	4030.4	4030.4	3928.6	3784.6	3653.1	3618.8	3430.1	3611.9	3577.6	2826.4
47.5°	3930.9	3954.9	4004.1	4010.9	3884.0	3794.9	3806.3	3645.1	3848.6	3830.3	3011.6
50°	3648.5	3693.1	3800.6	3994.9	3924.1	3903.5	3966.4	3864.6	4102.4	4096.7	3236.9
52.5°	2920.2	3028.8	3363.8	3712.5	3896.6	3953.8	4125.3	4111.6	4429.4	4438.6	3530.7
55°	2239.9	2281.0	2668.6	3262.0	3728.5	3937.8	4231.6	4352.8	4783.9	4795.3	3800.6
57.5°	1811.1	1838.5	2050.1	2668.6	3345.5	3850.9	4315.1	4493.5	5056.0	5085.7	4040.7
60°	1434.9	1475.0	1616.7	2042.1	2809.3	3641.6	4373.4	4650.1	5348.7	5393.3	4327.7
62.5°	1066.8	1086.2	1220.0	1512.7	2223.9	3265.5	4342.5	4820.5	5707.7	5761.5	4673.0
65°	759.2	776.3	871.2	1075.9	1644.2	2756.7	4163.0	4947.4	6158.2	6213.1	5020.5
67.5°	568.3	575.1	628.9	752.3	1107.9	2141.5	3799.4	4925.6	6487.5	6536.7	5160.0
70°	449.3	451.6	477.9	544.2	720.3	1491.0	3162.6	4606.6	6511.5	6555.0	4984.0
72.5°	372.7	371.6	386.5	418.5	501.9	943.3	2342.8	4014.4	6202.8	6232.5	4492.3
75°	307.6	309.9	320.1	338.4	383.0	622.0	1518.4	3202.6	5472.2	5440.2	3769.7
77.5°	258.4	257.3	261.8	277.8	309.9	447.1	889.5	2314.2	4055.5	4039.5	2474.3
80°	208.1	210.4	217.2	231.0	260.7	340.7	526.0	1444.1	2175.8	2117.5	1182.2
82.5°	139.5	161.2	174.9	190.9	225.2	251.5	333.9	734.0	973.0	958.1	536.2
85°	66.3	88.0	130.3	148.6	182.9	157.8	226.4	349.9	487.1	481.4	193.2
87.5°	13.7	13.7	69.7	83.5	113.2	67.5	125.8	152.1	235.5	220.7	78.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1093.1	1062.2	1000.5	951.3	901.0	872.4	836.9	819.8	816.4	807.2	814.1
5°	1112.5	1051.9	935.3	858.7	807.2	782.1	769.5	764.9	763.8	761.5	761.5
7.5°	1138.8	1046.2	894.1	816.4	783.2	775.2	778.6	785.5	786.6	788.9	787.8
10°	1170.8	1047.3	871.2	806.1	790.1	791.2	802.6	811.8	816.4	819.8	818.7
12.5°	1215.4	1061.0	867.8	812.9	806.1	810.7	822.1	831.2	835.8	836.9	836.9
15°	1273.7	1089.6	875.8	827.8	822.1	825.5	832.4	835.8	836.9	835.8	835.8
17.5°	1337.7	1123.9	887.3	836.9	827.8	824.4	822.1	818.7	811.8	807.2	807.2
20°	1399.5	1154.8	893.0	835.8	819.8	806.1	792.4	775.2	763.8	754.6	754.6
22.5°	1461.2	1183.4	893.0	823.2	798.1	771.8	743.2	715.8	698.6	687.2	687.2
25°	1526.4	1210.8	886.1	801.5	763.8	726.0	687.2	652.9	635.7	624.3	622.0
27.5°	1581.3	1226.8	867.8	770.6	721.5	673.4	628.9	593.4	580.8	570.5	570.5
30°	1639.6	1237.1	833.5	730.6	673.4	618.6	572.8	544.2	530.5	515.7	514.5
32.5°	1704.8	1244.0	794.6	688.3	624.3	566.0	527.1	504.2	474.5	458.5	456.2
35°	1780.2	1253.1	753.5	640.3	575.1	522.5	499.7	461.9	433.3	419.6	418.5
37.5°	1860.3	1260.0	708.9	598.0	530.5	493.9	471.1	426.5	401.3	380.7	378.5
40°	1944.9	1260.0	663.2	556.8	495.1	481.4	437.9	397.9	355.6	345.3	343.0
42.5°	2038.6	1257.7	617.4	516.8	461.9	452.8	418.5	376.2	354.4	345.3	343.0
45°	2138.1	1249.7	574.0	471.1	427.6	409.3	383.0	371.6	362.4	362.4	362.4
47.5°	2251.3	1242.8	524.8	429.9	402.5	381.9	362.4	355.6	354.4	357.9	361.3
50°	2396.5	1240.6	483.6	400.2	383.0	359.0	356.7	351.0	352.2	352.2	352.2
52.5°	2572.6	1220.0	444.8	378.5	363.6	335.0	341.9	347.6	349.9	348.7	347.6
55°	2701.8	1183.4	411.6	363.6	349.9	325.9	335.0	344.2	346.4	343.0	343.0
57.5°	2818.4	1131.9	385.3	352.2	340.7	320.1	330.4	339.6	337.3	336.2	335.0
60°	2952.2	1082.8	364.7	346.4	331.6	317.9	327.0	332.7	329.3	327.0	325.9
62.5°	3097.4	1034.8	349.9	346.4	324.7	316.7	323.6	325.9	319.0	316.7	316.7
65°	3164.9	959.3	333.9	346.4	321.3	314.4	316.7	314.4	307.6	307.6	306.4
67.5°	3053.9	834.7	313.3	341.9	325.9	311.0	306.4	303.0	295.0	295.0	292.7
70°	2747.5	686.0	283.6	327.0	327.0	309.9	292.7	284.7	275.6	279.0	274.4
72.5°	2347.3	544.2	247.0	301.9	320.1	308.7	277.8	265.3	257.3	260.7	253.8
75°	1901.4	421.9	203.5	261.8	303.0	303.0	263.0	245.8	236.7	236.7	228.7
77.5°	1212.0	312.1	165.8	217.2	272.1	295.0	250.4	224.1	210.4	207.0	201.2
80°	600.3	219.5	136.1	172.6	232.1	276.7	241.3	198.9	179.5	172.6	162.4
82.5°	319.0	152.1	108.6	134.9	185.2	249.3	229.8	171.5	147.5	137.2	125.8
85°	142.9	93.8	86.9	102.9	140.6	204.7	207.0	140.6	113.2	134.9	99.5
87.5°	52.6	42.3	42.3	52.6	81.2	85.8	146.4	90.3	72.0	49.2	38.9
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)