

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: P397885

Luminaire Tested: **ARCH-S-PA1-50-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-50-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

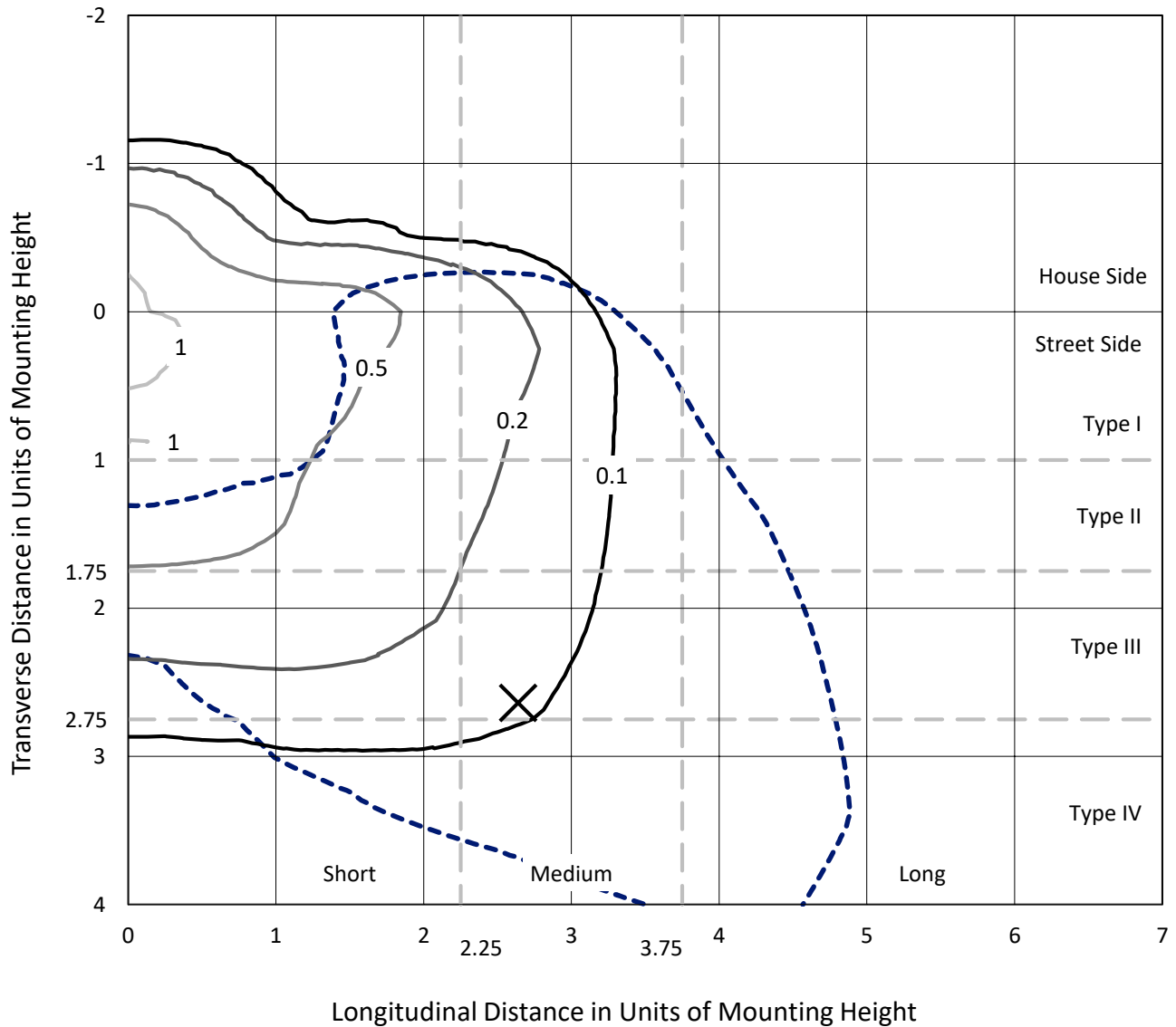
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

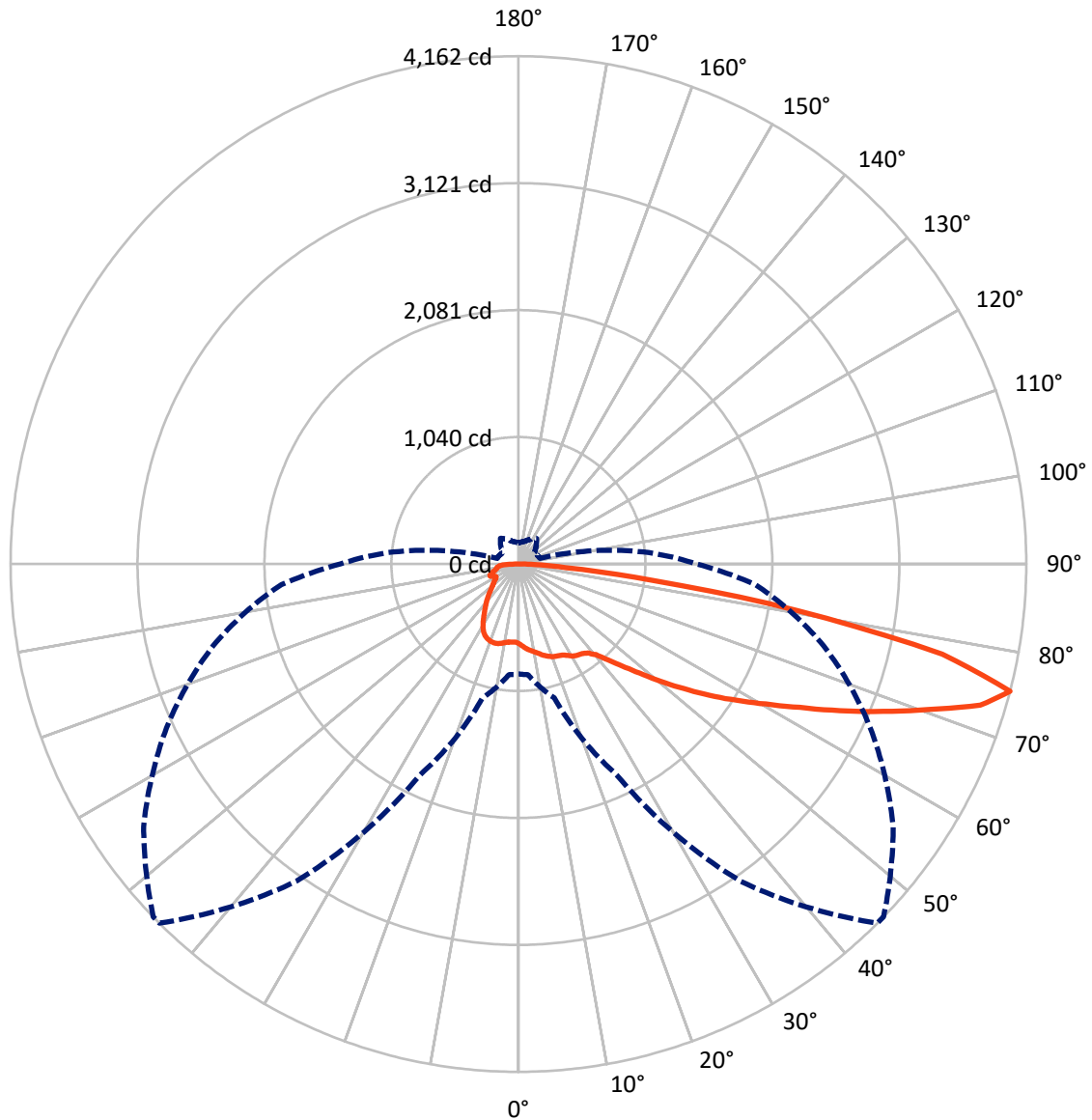


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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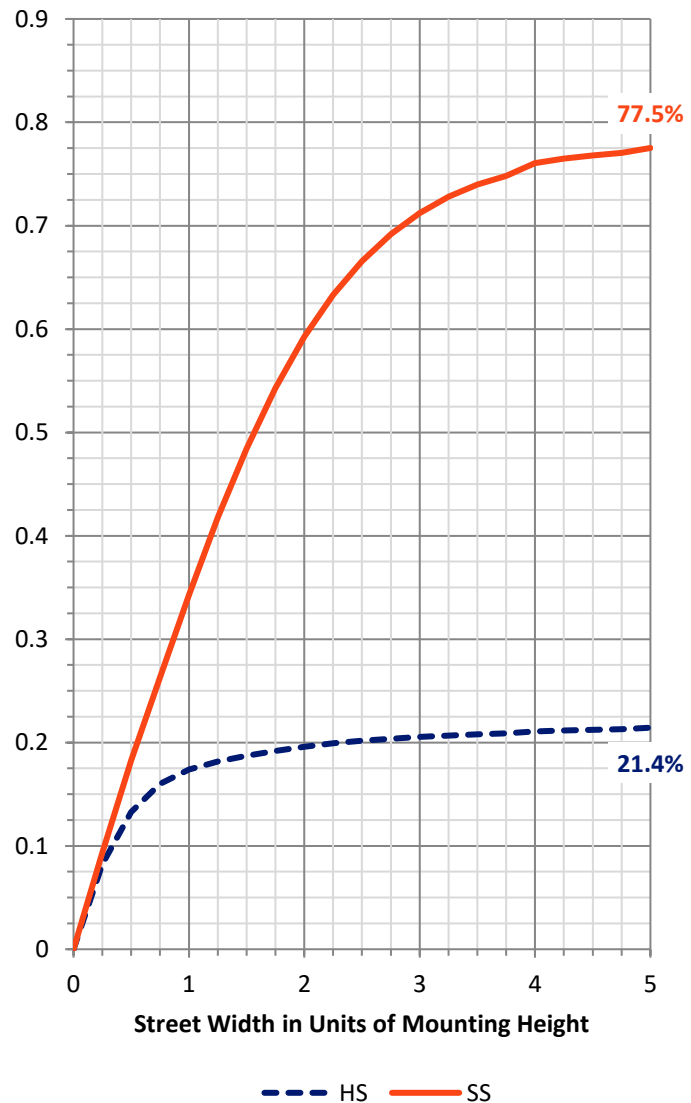
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.0	0.0	1373.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4839.9	0.0	4839.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	6213.0	0.0	6213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	205.4	3.3
20°-30°	350.1	5.6
30°-40°	490.5	7.9
40°-50°	720.7	11.6
50°-60°	1147.0	18.5
60°-70°	1631.6	26.3
70°-80°	1366.1	22.0
80°-90°	237.1	3.8
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°	6213.0	100.0
0°-180°	6213.0	100.0

Coefficient of Utilization



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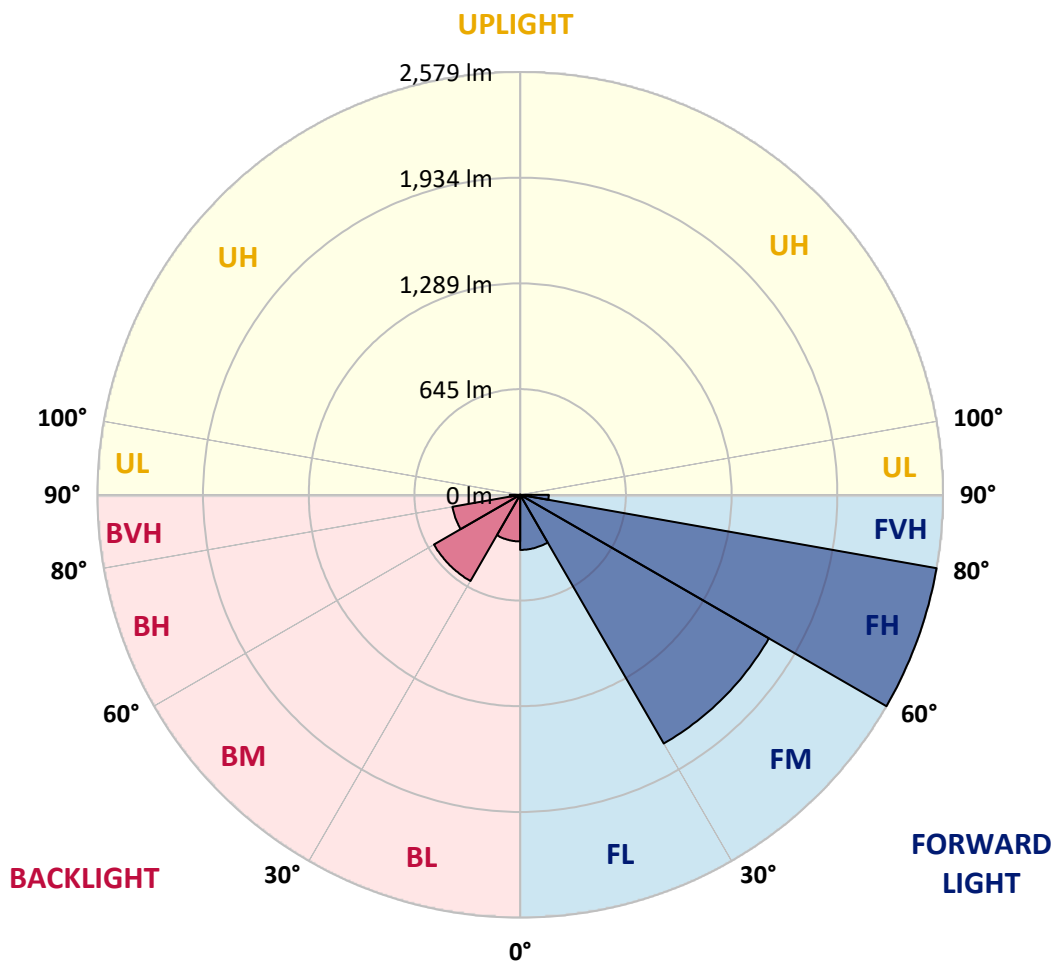
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.9	5.4			
FM (30°-60°)	1751.2	28.2			
FH (60°-80°)	2578.5	41.5			G2/5000
FVH (80°-90°)	174.3	2.8			G2/225
BL (0°-30°)	284.2	4.6	B1/500		
BM (30°-60°)	606.9	9.8	B1/1000		
BH (60°-80°)	419.1	6.7	B1/500		G1/500
BVH (80°-90°)	62.8	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
2.5°	689.9	686.5	684.9	684.9	678.2	674.1	673.3	667.4	662.5	657.5	653.3
5°	729.7	727.2	722.2	718.1	709.0	697.3	695.7	683.2	670.8	659.1	649.2
7.5°	766.2	761.3	755.4	747.1	732.2	716.4	713.9	696.5	679.1	661.6	648.4
10°	796.9	792.0	783.7	772.0	752.9	733.9	731.4	713.1	694.8	674.1	655.0
12.5°	826.0	821.9	809.4	793.6	771.2	753.8	751.3	735.5	716.4	693.2	668.3
15°	850.9	846.8	833.5	815.2	789.5	776.2	772.9	757.9	738.8	713.9	688.2
17.5°	863.4	863.4	849.2	829.3	805.2	795.3	792.8	774.5	757.1	733.0	707.3
20°	867.5	869.2	859.2	835.1	814.4	810.2	807.7	792.8	772.9	749.6	725.6
22.5°	870.0	873.3	865.0	837.6	820.2	817.7	816.0	806.1	790.3	767.9	743.8
25°	878.3	878.3	872.5	841.8	827.7	826.8	826.8	821.0	810.2	791.1	767.1
27.5°	890.8	889.9	882.5	850.9	844.3	846.8	845.9	845.1	837.6	818.5	792.8
30°	911.5	911.5	903.2	869.2	865.0	875.8	876.6	878.3	866.7	836.8	816.0
32.5°	943.1	939.7	931.4	887.4	880.8	890.8	892.4	891.6	881.6	853.4	843.4
35°	1040.2	1032.7	1002.8	928.1	894.9	900.7	901.5	905.7	907.4	884.9	880.0
37.5°	1210.4	1200.4	1154.7	1024.4	939.7	925.6	924.8	935.6	944.7	924.8	924.8
40°	1395.5	1387.2	1360.6	1190.4	1022.7	976.3	972.9	982.9	994.5	980.4	984.6
42.5°	1554.9	1561.5	1564.0	1366.4	1147.3	1070.9	1061.8	1047.7	1065.9	1053.5	1070.1
45°	1674.4	1671.1	1716.8	1546.6	1308.3	1189.6	1177.2	1139.0	1162.2	1161.4	1197.9
47.5°	1801.4	1795.6	1814.7	1715.9	1491.8	1334.9	1315.8	1259.3	1294.2	1318.3	1378.9
50°	1921.8	1923.5	1930.1	1849.6	1691.0	1511.7	1487.6	1412.1	1461.9	1512.5	1598.0
52.5°	2078.7	2067.1	2058.8	2005.7	1914.3	1696.0	1680.2	1593.9	1663.6	1723.4	1837.1
55°	2215.7	2208.2	2203.2	2200.7	2101.1	1899.4	1882.8	1793.1	1893.6	1935.9	2103.6
57.5°	2361.8	2357.6	2384.2	2426.5	2386.7	2106.1	2088.7	2002.3	2114.4	2144.3	2392.5
60°	2468.9	2471.4	2544.4	2652.3	2624.9	2330.2	2309.5	2233.1	2329.4	2356.0	2681.4
62.5°	2469.7	2494.6	2664.0	2857.4	2888.9	2588.4	2564.3	2481.3	2550.2	2550.2	2940.4
65°	2233.9	2262.2	2642.4	2908.0	3156.2	2895.6	2872.3	2742.0	2767.7	2732.9	3183.6
67.5°	1999.0	2032.2	2390.0	2912.2	3343.9	3224.3	3196.9	3002.7	2958.7	2870.7	3353.8
70°	1842.9	1866.2	2165.0	2858.2	3456.8	3568.0	3547.2	3250.1	3108.9	2986.1	3318.1
72.5°	1551.6	1543.3	1828.8	2601.7	3519.9	3958.2	3940.7	3519.0	3239.3	2931.3	2830.0
75°	900.7	910.7	1134.8	1906.0	3172.8	4161.6	4159.9	3749.0	3182.0	2589.2	1950.0
77.5°	259.8	267.3	372.7	837.6	2006.5	3549.7	3663.5	3428.5	2689.7	1845.4	1011.1
80°	113.7	119.5	161.9	278.9	864.2	2318.6	2418.2	2318.6	1622.1	846.8	396.8
82.5°	67.2	71.4	105.4	172.7	414.2	1103.3	1237.8	1080.9	699.8	359.5	164.4
85°	38.2	39.8	60.6	109.6	260.7	386.0	433.3	405.9	341.2	204.2	86.3
87.5°	17.4	18.3	29.9	51.5	146.1	130.3	135.3	179.3	197.6	124.5	43.2
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°	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
2.5°	651.7	649.2	644.2	642.5	640.0	640.9	641.7	641.7	642.5	640.0	640.0
5°	645.0	640.9	635.9	635.9	635.9	642.5	648.4	651.7	653.3	653.3	651.7
7.5°	642.5	637.6	631.7	633.4	635.1	643.4	654.2	665.0	668.3	668.3	666.6
10°	647.5	642.5	638.4	640.9	645.0	651.7	660.0	669.9	678.2	679.1	678.2
12.5°	659.1	653.3	649.2	654.2	659.1	663.3	667.4	671.6	682.4	684.0	684.0
15°	678.2	672.4	667.4	671.6	673.3	673.3	673.3	673.3	684.0	685.7	685.7
17.5°	697.3	692.3	687.4	688.2	683.2	676.6	674.1	673.3	679.1	684.0	684.9
20°	715.6	711.4	706.5	698.2	685.7	673.3	669.1	669.1	672.4	679.9	679.9
22.5°	735.5	730.5	722.2	703.1	682.4	665.0	660.8	663.3	667.4	677.4	676.6
25°	757.9	751.3	737.2	701.5	671.6	650.8	651.7	659.1	666.6	677.4	677.4
27.5°	782.8	773.7	745.5	688.2	647.5	627.6	635.1	652.5	663.3	674.9	676.6
30°	810.2	801.9	752.1	665.0	608.5	590.2	608.5	636.7	653.3	664.1	666.6
32.5°	843.4	836.8	757.9	635.1	557.9	542.1	568.7	603.5	630.1	642.5	645.0
35°	884.9	878.3	765.4	601.0	510.5	493.9	518.0	553.7	588.6	604.4	609.3
37.5°	938.9	928.9	772.0	564.5	470.7	451.6	463.2	495.6	527.1	548.7	554.5
40°	1007.8	992.0	777.9	523.0	435.8	414.2	418.4	434.2	452.4	471.5	479.0
42.5°	1104.9	1073.4	778.7	479.0	400.1	380.2	378.6	383.5	383.5	383.5	386.0
45°	1240.2	1180.5	780.3	437.5	363.6	342.9	337.9	336.2	323.8	299.7	298.0
47.5°	1411.3	1320.8	787.8	402.6	325.4	307.2	300.5	293.9	270.6	245.7	240.7
50°	1630.4	1483.5	802.8	369.4	293.0	280.6	272.3	256.5	230.8	211.7	206.7
52.5°	1882.8	1676.9	816.9	334.6	269.0	260.7	250.7	231.6	204.2	192.6	190.9
55°	2172.5	1892.8	845.1	303.8	248.2	242.4	233.3	215.0	194.3	186.0	185.1
57.5°	2468.9	2134.3	884.9	276.4	228.3	225.0	225.0	209.2	195.9	192.6	192.6
60°	2754.5	2341.9	854.2	250.7	210.0	211.7	227.5	223.3	213.3	217.5	220.0
62.5°	2976.1	2463.9	693.2	230.0	196.7	211.7	252.4	252.4	240.7	239.1	239.1
65°	3070.7	2462.2	487.3	214.2	191.8	232.4	281.4	268.1	237.4	225.8	223.3
67.5°	3046.7	2354.3	336.2	203.4	190.1	254.0	294.7	257.3	222.5	212.5	205.0
70°	2835.0	2126.0	259.0	193.4	187.6	244.9	290.6	244.9	210.9	201.7	195.1
72.5°	2287.1	1705.1	215.0	183.5	177.7	226.6	276.4	233.3	201.7	191.8	185.1
75°	1458.6	1072.6	181.8	170.2	158.6	203.4	257.3	221.7	191.8	178.5	173.5
77.5°	701.5	462.4	158.6	154.4	142.8	188.4	238.3	206.7	178.5	167.7	164.4
80°	283.9	211.7	137.8	138.6	131.2	179.3	225.0	192.6	165.2	153.6	147.8
82.5°	147.8	122.9	116.2	119.5	119.5	171.0	215.0	181.0	153.6	148.6	129.5
85°	79.7	76.4	89.7	96.3	103.8	154.4	200.1	168.5	140.3	120.4	116.2
87.5°	39.0	49.8	50.6	58.1	72.2	123.7	168.5	141.1	117.1	97.1	95.5
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)