

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: P573196

Luminaire Tested: **ARCH-S-PA2-40-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5259 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

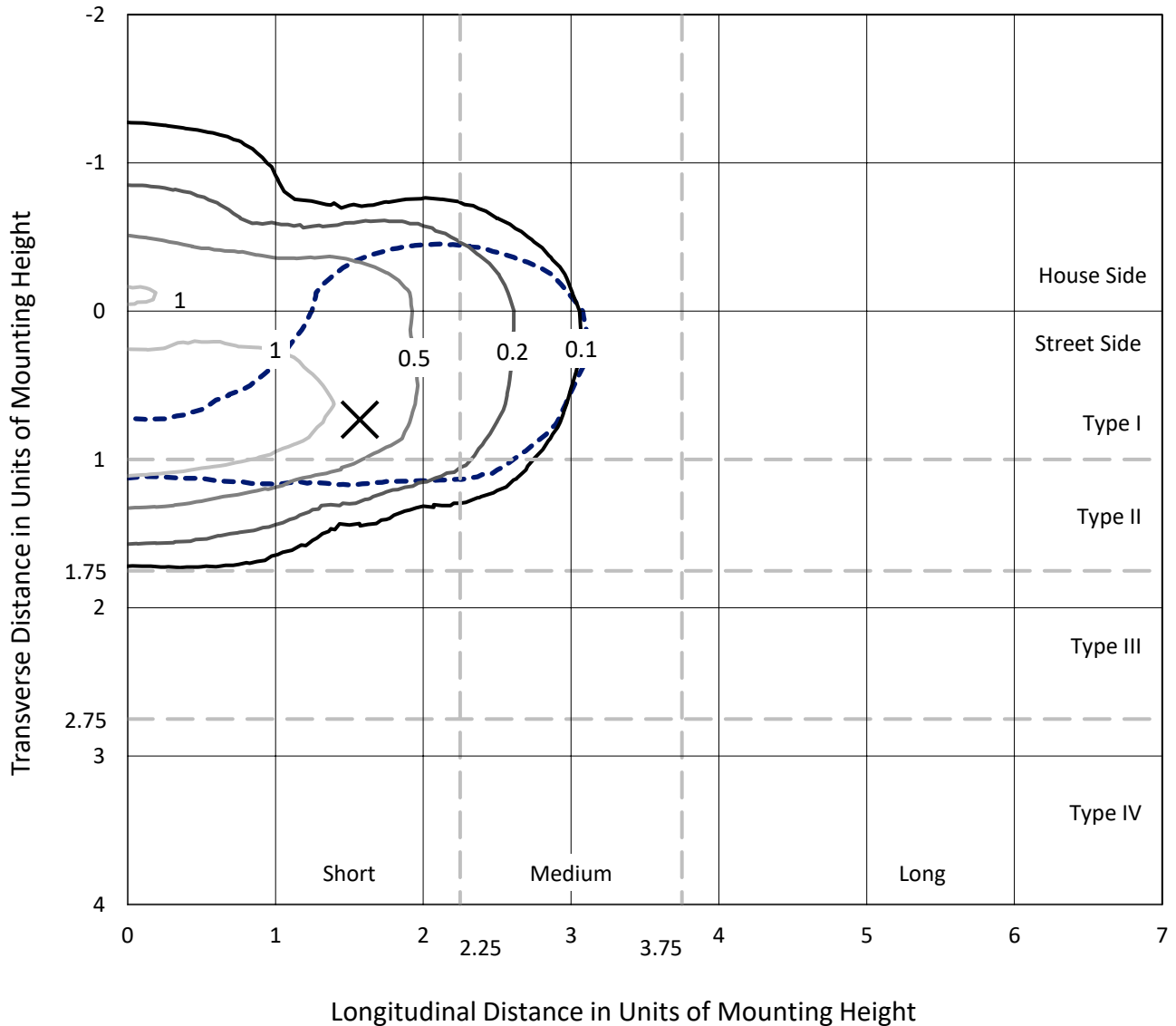
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

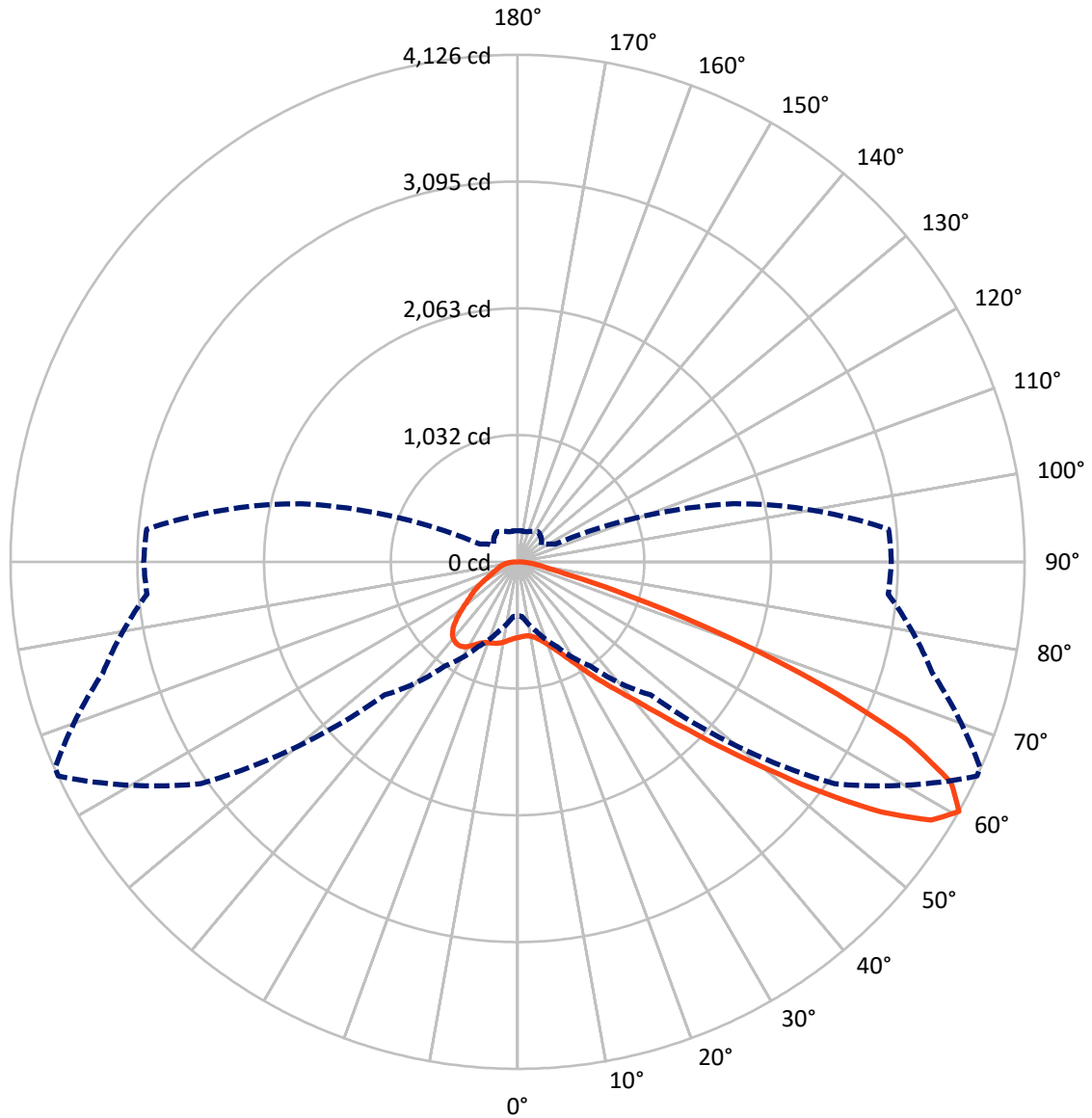
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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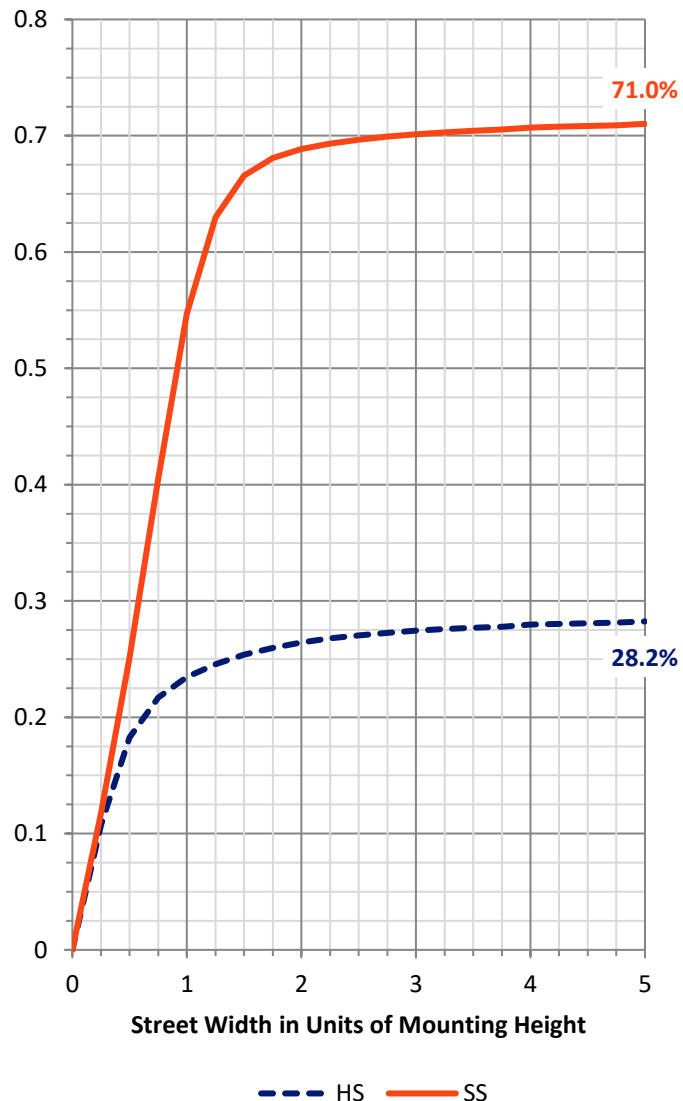
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.5	0.0	1505.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	3753.5	0.0	3753.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	5259.0	0.0	5259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	191.9	3.6
20°-30°	367.8	7.0
30°-40°	638.8	12.1
40°-50°	1083.4	20.6
50°-60°	1349.0	25.7
60°-70°	1087.1	20.7
70°-80°	411.6	7.8
80°-90°	69.8	1.3
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°	5259.0	100.0
0°-180°	5259.0	100.0

Coefficient of Utilization

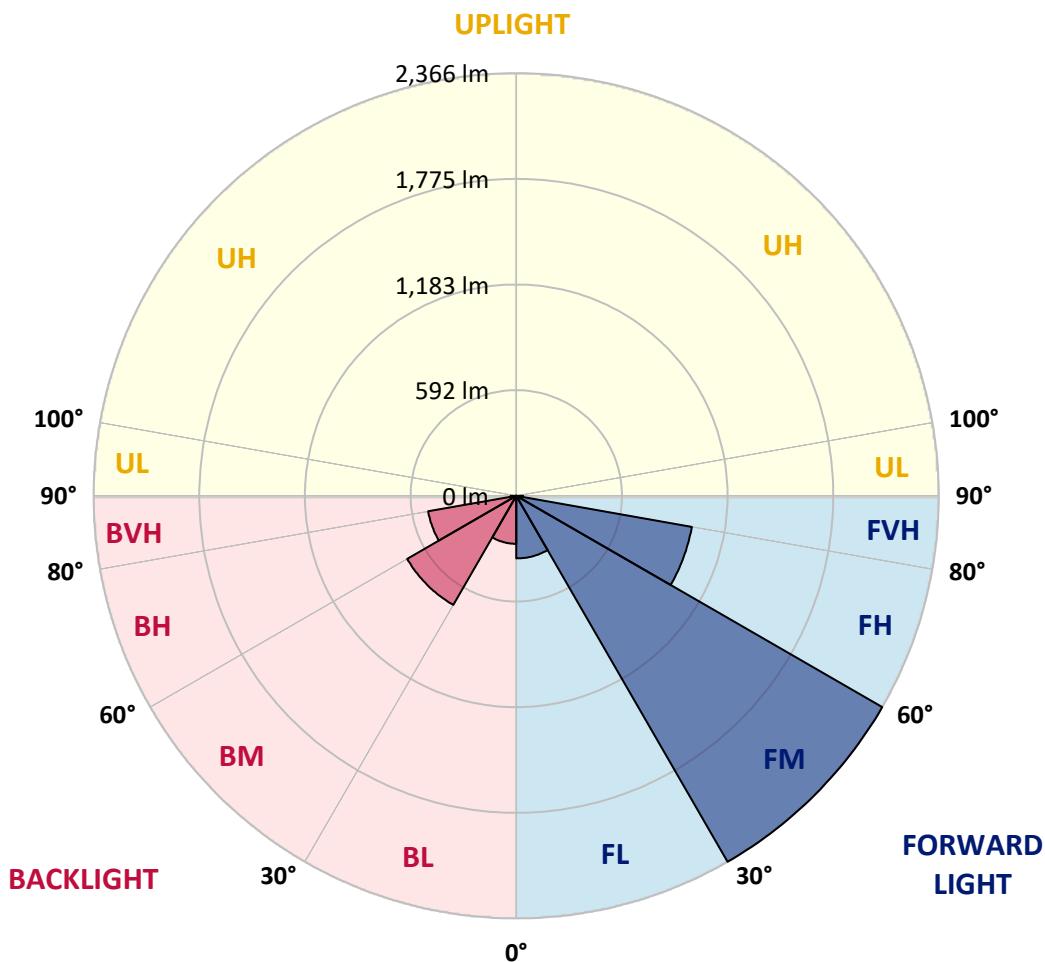


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.6	6.7			
FM (30°-60°)	2366.0	45.0			
FH (60°-80°)	998.1	19.0			G1/1800
FVH (80°-90°)	38.7	0.7			G1/100
BL (0°-30°)	268.7	5.1	B1/500		
BM (30°-60°)	705.2	13.4	B1/1000		
BH (60°-80°)	500.6	9.5	B2/1000		G2/1000
BVH (80°-90°)	31.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	602.6	602.6	602.6	604.1	605.5	606.9	609.8	609.8	609.8	611.3	614.2
5°	591.1	589.6	591.1	592.5	595.4	598.3	604.1	606.9	606.9	612.7	618.5
7.5°	592.5	589.6	589.6	591.1	594.0	596.9	602.6	606.9	608.4	615.6	625.7
10°	606.9	602.6	602.6	604.1	604.1	606.9	611.3	617.0	618.5	625.7	635.8
12.5°	637.2	632.9	631.5	627.1	622.8	625.7	630.0	631.5	632.9	637.2	647.3
15°	700.7	693.4	681.9	673.3	661.7	654.5	653.1	654.5	654.5	656.0	661.7
17.5°	791.5	782.8	765.5	746.8	719.4	696.3	689.1	683.4	683.4	679.0	679.0
20°	902.5	889.5	869.3	841.9	801.6	759.8	735.3	722.3	718.0	710.7	700.7
22.5°	1030.8	1022.2	996.2	954.4	893.8	837.6	797.2	768.4	768.4	751.1	729.5
25°	1182.2	1166.3	1136.0	1087.0	1004.9	924.1	869.3	827.5	823.2	795.8	761.2
27.5°	1329.2	1319.1	1281.7	1216.8	1118.7	1025.0	948.6	899.6	892.4	849.1	795.8
30°	1508.0	1496.5	1440.2	1349.4	1244.2	1137.5	1048.1	984.7	977.5	918.3	843.4
32.5°	1730.0	1691.1	1621.9	1518.1	1382.6	1262.9	1160.6	1092.8	1084.1	1016.4	927.0
35°	1999.6	1966.5	1846.8	1737.2	1575.8	1418.6	1296.1	1206.7	1195.2	1114.4	1002.0
37.5°	2189.9	2174.1	2091.9	2005.4	1820.8	1608.9	1459.0	1335.0	1323.5	1216.8	1071.2
40°	2309.6	2293.7	2270.6	2246.1	2143.8	1904.5	1655.0	1486.4	1467.6	1366.7	1209.6
42.5°	2371.6	2358.6	2362.9	2411.9	2440.8	2403.3	1934.7	1688.2	1675.2	1552.7	1378.2
45°	2335.5	2326.9	2368.7	2498.4	2639.7	2916.5	2293.7	1953.5	1918.9	1773.3	1583.0
47.5°	2162.5	2136.6	2234.6	2455.2	2757.9	3161.6	2726.2	2280.7	2243.3	2034.2	1790.6
50°	1806.4	1799.2	1933.3	2213.0	2711.8	3258.2	3189.0	2667.1	2639.7	2315.3	2021.2
52.5°	1474.8	1472.0	1575.8	1832.4	2417.7	3190.4	3524.9	3127.0	3044.8	2597.9	2272.1
55°	1144.7	1143.3	1235.5	1427.3	1929.0	2871.8	3683.5	3595.5	3535.0	2906.4	2530.1
57.5°	782.8	772.7	892.4	1038.0	1448.9	2275.0	3579.7	3966.1	3928.6	3233.7	2804.1
60°	435.4	449.8	582.4	762.6	1036.6	1532.5	3147.2	4126.1	4120.3	3494.6	3027.5
62.5°	308.5	314.3	370.5	542.1	681.9	878.0	2427.8	3960.3	4006.4	3638.8	3154.4
65°	256.6	259.5	286.9	400.8	498.8	507.5	1513.8	3468.7	3529.2	3594.1	3181.8
67.5°	242.2	243.6	258.1	295.5	390.7	367.6	676.1	2648.4	2776.7	3233.7	3003.0
70°	220.6	222.0	243.6	260.9	315.7	289.8	347.4	1758.8	1931.9	2556.1	2589.3
72.5°	188.9	193.2	210.5	245.1	256.6	240.8	268.2	940.0	1111.5	1709.8	1999.6
75°	162.9	165.8	178.8	207.6	240.8	191.7	227.8	428.2	501.7	1003.4	1265.8
77.5°	131.2	132.6	151.4	170.1	201.8	155.7	177.3	256.6	269.6	490.2	572.3
80°	99.5	99.5	112.5	135.5	149.9	149.9	129.8	178.8	186.0	233.6	226.3
82.5°	76.4	75.0	85.1	95.2	108.1	125.4	98.0	118.2	121.1	141.3	121.1
85°	50.5	50.5	56.2	64.9	72.1	69.2	76.4	69.2	72.1	87.9	66.3
87.5°	21.6	21.6	30.3	28.8	31.7	33.2	37.5	33.2	33.2	40.4	30.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	615.6	617.0	619.9	621.4	625.7	627.1	627.1	630.0	630.0	632.9	632.9
5°	619.9	624.2	628.6	632.9	637.2	638.7	641.5	643.0	643.0	645.9	644.4
7.5°	628.6	632.9	641.5	645.9	651.6	654.5	653.1	654.5	653.1	654.5	654.5
10°	640.1	645.9	656.0	661.7	666.1	667.5	663.2	658.8	653.1	653.1	653.1
12.5°	653.1	657.4	670.4	674.7	677.6	673.3	661.7	653.1	648.8	650.2	648.8
15°	666.1	670.4	680.5	684.8	684.8	671.8	661.7	658.8	657.4	658.8	658.8
17.5°	679.0	683.4	692.0	692.0	687.7	677.6	667.5	657.4	650.2	645.9	645.9
20°	696.3	696.3	699.2	699.2	697.8	681.9	657.4	632.9	618.5	609.8	608.4
22.5°	719.4	713.6	707.9	707.9	713.6	671.8	624.2	586.8	563.7	560.8	555.0
25°	743.9	730.9	716.5	726.6	716.5	645.9	578.1	527.7	500.3	490.2	493.1
27.5°	769.9	749.7	728.0	756.9	702.1	595.4	513.2	457.0	431.1	423.9	423.9
30°	805.9	775.6	743.9	788.6	674.7	537.7	436.8	396.5	382.0	376.3	374.8
32.5°	875.1	829.0	782.8	817.4	644.4	462.8	384.9	360.4	343.1	337.4	341.7
35°	937.1	872.2	841.9	830.4	596.9	402.2	353.2	331.6	317.2	310.0	310.0
37.5°	993.3	931.3	908.3	830.4	534.9	364.7	333.0	315.7	297.0	291.2	291.2
40°	1115.9	1033.7	993.3	818.9	458.5	346.0	322.9	302.8	286.9	281.1	279.7
42.5°	1284.5	1173.5	1081.3	792.9	393.6	337.4	317.2	294.1	281.1	276.8	275.4
45°	1463.3	1365.3	1164.9	746.8	351.8	328.7	315.7	291.2	275.4	271.0	269.6
47.5°	1679.6	1578.6	1261.5	676.1	322.9	322.9	314.3	286.9	272.5	268.2	268.2
50°	1918.9	1835.3	1384.0	595.4	301.3	318.6	311.4	286.9	271.0	266.7	265.3
52.5°	2164.0	2125.0	1512.3	516.1	279.7	312.8	310.0	286.9	268.2	263.8	263.8
55°	2475.4	2443.6	1660.8	457.0	262.4	301.3	310.0	284.0	263.8	260.9	260.9
57.5°	2781.0	2769.5	1776.1	405.1	249.4	286.9	305.6	279.7	259.5	258.1	258.1
60°	3041.9	3030.4	1825.2	340.2	236.4	272.5	297.0	272.5	252.3	253.7	253.7
62.5°	3203.4	3137.1	1789.1	281.1	223.5	259.5	286.9	263.8	245.1	249.4	248.0
65°	3232.2	3078.0	1649.3	235.0	209.0	245.1	275.4	253.7	235.0	245.1	243.6
67.5°	3020.3	2763.7	1386.9	204.7	194.6	229.2	262.4	239.3	223.5	237.9	233.6
70°	2561.9	2244.7	1026.5	181.7	180.2	210.5	245.1	222.0	207.6	214.8	209.0
72.5°	1907.3	1620.4	664.6	164.4	164.4	188.9	220.6	200.4	186.0	187.4	181.7
75°	1189.4	996.2	377.7	148.5	148.5	167.2	196.1	175.9	165.8	160.0	167.2
77.5°	540.6	438.3	199.0	132.6	134.1	142.7	168.7	149.9	138.4	129.8	134.1
80°	200.4	178.8	129.8	113.9	116.8	118.2	135.5	119.7	109.6	103.8	100.9
82.5°	103.8	96.6	87.9	90.8	95.2	90.8	105.2	89.4	77.9	73.5	62.0
85°	51.9	50.5	53.3	60.6	66.3	56.2	63.4	57.7	47.6	34.6	34.6
87.5°	20.2	21.6	20.2	27.4	30.3	26.0	28.8	20.2	14.4	7.2	5.8
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)