

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: P573200

Luminaire Tested: **ARCH-S-PA2-40-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
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-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5305 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

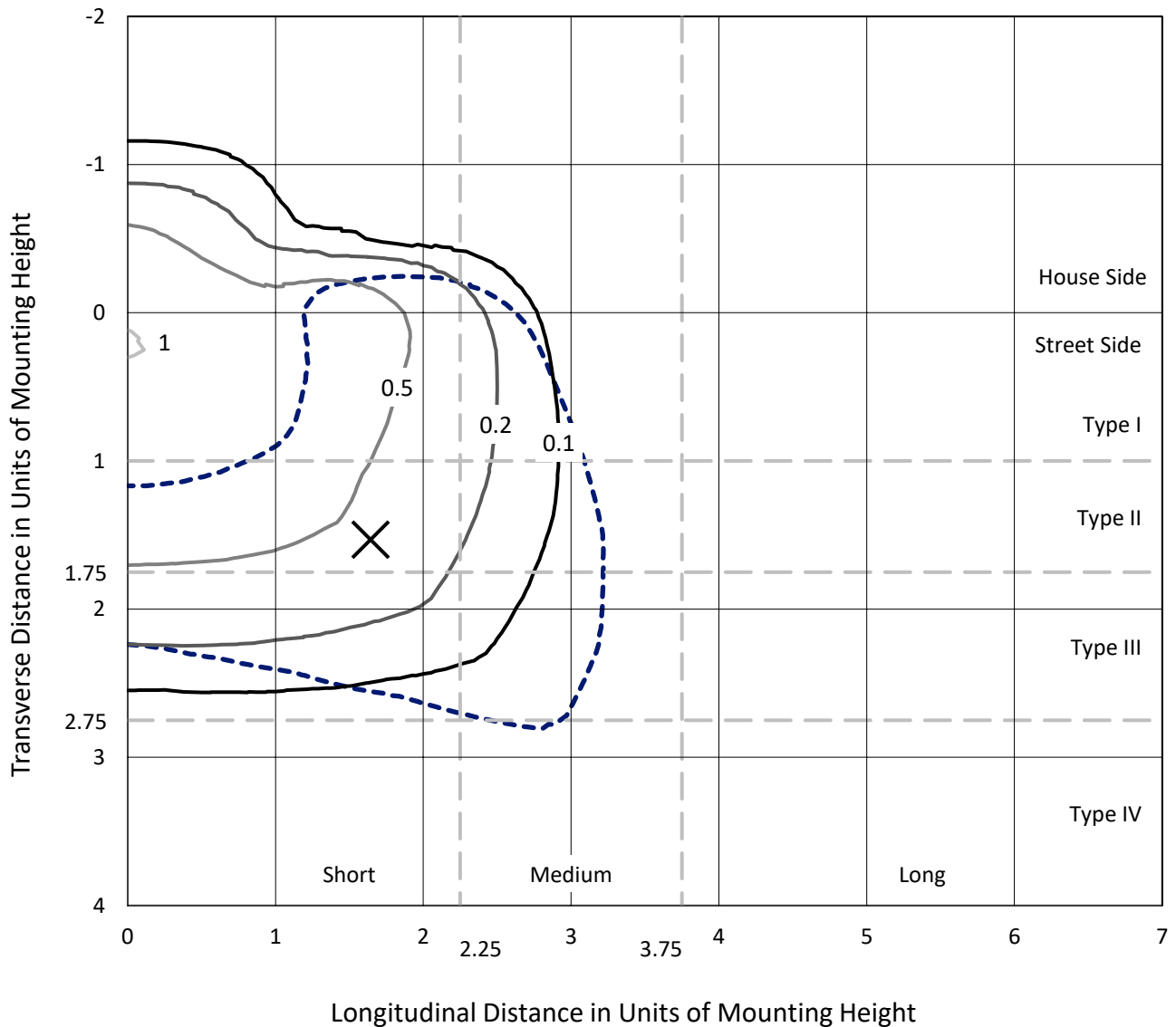
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

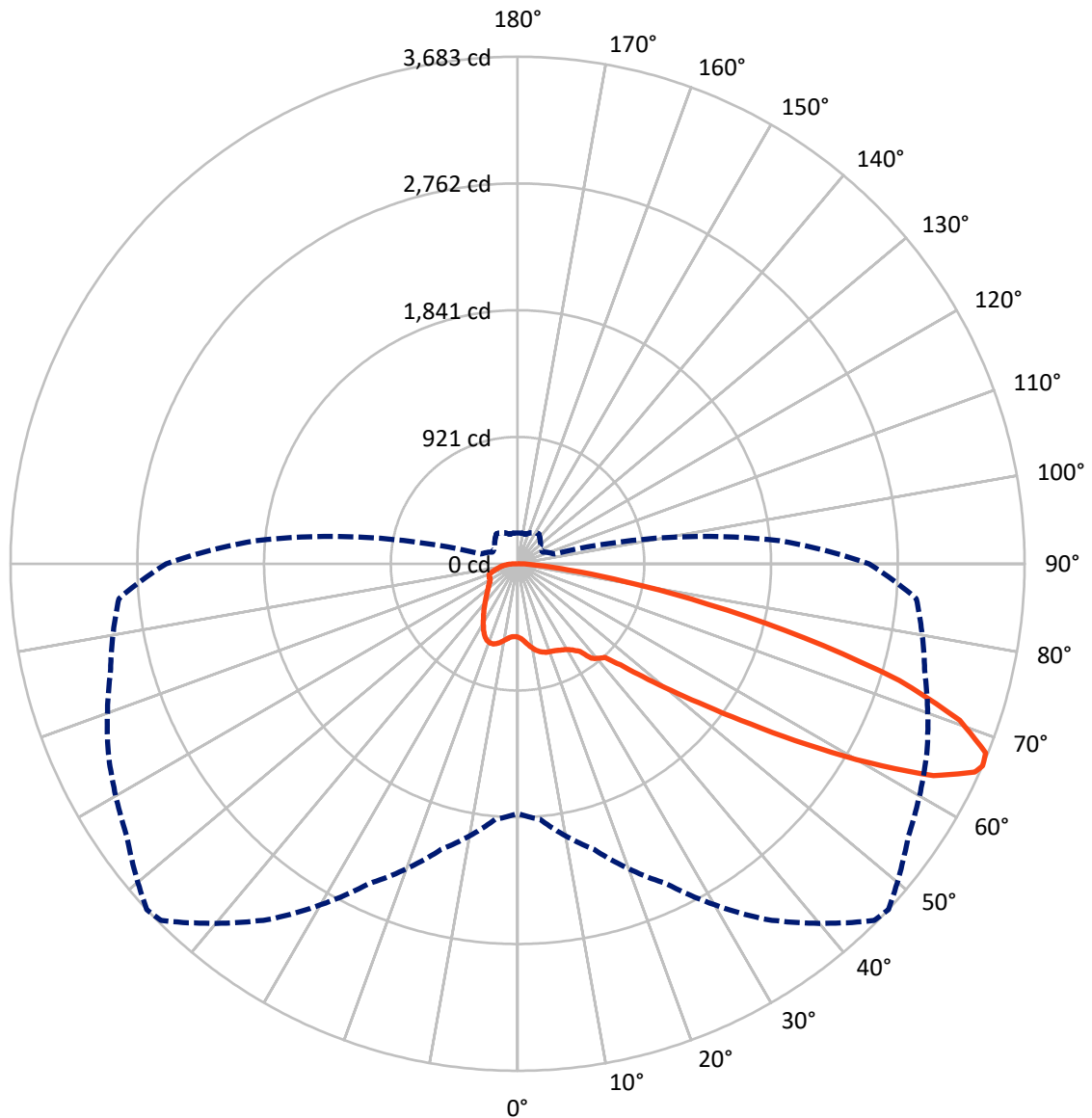
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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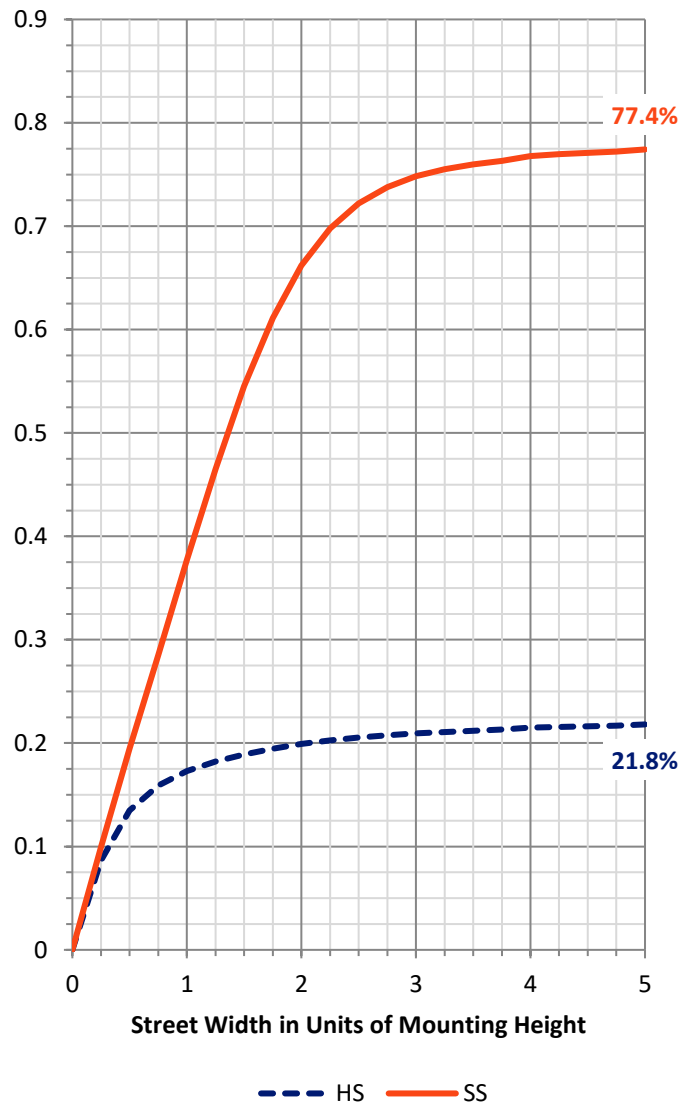
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.5	0.0	1179.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4125.5	0.0	4125.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	5305.0	0.0	5305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.0
10°-20°	178.1	3.4
20°-30°	297.0	5.6
30°-40°	431.2	8.1
40°-50°	659.5	12.4
50°-60°	1246.7	23.5
60°-70°	1610.9	30.4
70°-80°	724.1	13.6
80°-90°	103.3	1.9
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°	5305.0	100.0
0°-180°	5305.0	100.0

Coefficient of Utilization



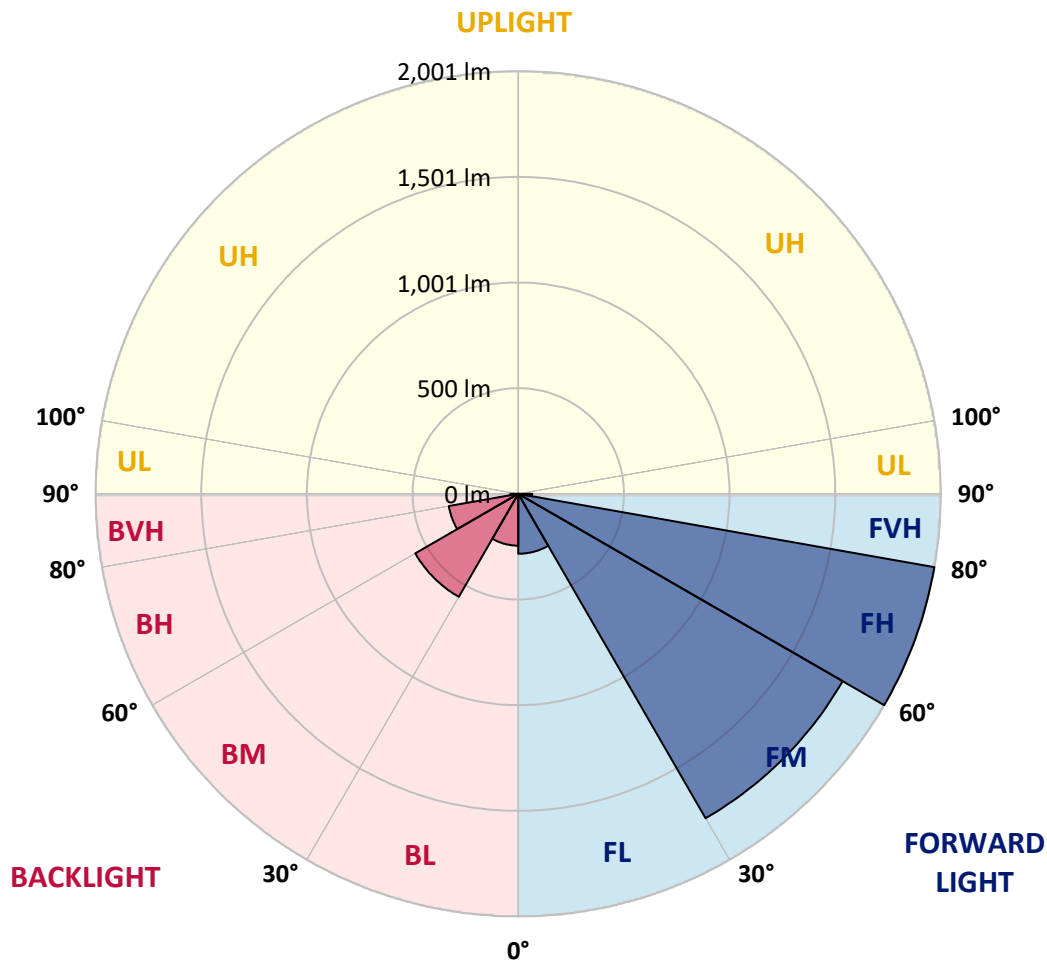
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	5.4			
FM (30°-60°)	1774.1	33.4			
FH (60°-80°)	2001.2	37.7			G2/5000
FVH (80°-90°)	66.4	1.3			G1/100
BL (0°-30°)	245.5	4.6	B1/500		
BM (30°-60°)	563.4	10.6	B1/1000		
BH (60°-80°)	333.7	6.3	B1/500		G1/500
BVH (80°-90°)	36.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3
2.5°	563.6	559.3	556.4	554.9	552.1	546.3	546.3	544.8	539.1	536.2	534.8
5°	608.3	605.4	598.2	592.4	583.8	572.2	570.8	562.1	550.6	542.0	536.2
7.5°	651.5	648.6	641.4	632.8	618.4	603.9	599.6	588.1	569.3	556.4	546.3
10°	689.0	684.7	676.0	664.5	648.6	632.8	628.4	615.5	596.7	578.0	560.7
12.5°	713.5	710.6	700.5	686.1	668.8	652.9	650.1	638.5	619.8	599.6	578.0
15°	725.0	723.6	712.0	697.6	680.3	667.4	665.9	655.8	640.0	619.8	595.3
17.5°	722.1	720.7	710.6	696.2	683.2	676.0	676.0	668.8	655.8	638.5	612.6
20°	707.7	707.7	699.1	689.0	681.8	680.3	680.3	678.9	670.2	655.8	629.9
22.5°	693.3	693.3	687.5	680.3	678.9	684.7	686.1	689.0	686.1	674.6	651.5
25°	696.2	694.7	687.5	678.9	680.3	693.3	696.2	703.4	702.0	693.3	673.1
27.5°	727.9	726.5	707.7	690.4	689.0	704.8	707.7	717.8	717.8	710.6	697.6
30°	807.2	810.1	775.5	732.2	710.6	720.7	723.6	735.1	740.9	743.8	733.7
32.5°	928.3	923.9	872.0	801.4	753.8	743.8	748.1	758.2	778.3	784.1	759.6
35°	1050.8	1053.7	1003.2	913.8	823.0	785.6	782.7	797.1	827.4	801.4	758.2
37.5°	1164.6	1160.3	1101.2	1004.6	913.8	870.6	872.0	866.3	840.3	788.4	768.3
40°	1288.6	1277.1	1228.1	1104.1	988.8	916.7	903.8	854.7	833.1	811.5	808.6
42.5°	1411.1	1412.6	1372.2	1249.7	1078.2	949.9	929.7	879.2	893.7	889.3	886.5
45°	1565.3	1565.3	1525.0	1411.1	1219.4	1073.8	1046.4	985.9	1009.0	1026.3	1060.9
47.5°	1706.6	1698.0	1686.4	1589.9	1403.9	1235.3	1223.7	1154.6	1215.1	1268.4	1339.1
50°	1856.5	1845.0	1837.8	1778.7	1646.1	1480.3	1445.7	1373.6	1506.3	1605.7	1736.9
52.5°	2090.0	2069.8	2032.4	1999.2	1947.3	1755.6	1712.4	1659.0	1830.6	1956.0	2224.1
55°	2300.5	2283.2	2247.1	2271.6	2264.4	2090.0	2052.5	2002.1	2188.0	2340.8	2647.8
57.5°	2378.3	2379.7	2428.7	2559.9	2629.1	2528.2	2474.9	2424.4	2581.5	2652.2	2928.9
60°	2414.3	2410.0	2536.8	2750.2	2975.0	3005.3	2937.6	2833.8	2892.9	2897.2	3166.7
62.5°	2336.5	2348.0	2522.4	2829.4	3182.6	3400.2	3390.1	3208.5	3153.8	3093.2	3230.2
65°	2041.0	2056.9	2313.4	2688.2	3215.7	3639.5	3649.6	3437.7	3284.9	3116.3	3050.0
66°	1816.1	1863.7	2149.1	2565.7	3155.2	3664.0	3682.7	3462.2	3279.2	3061.5	2907.3
67.5°	1523.5	1520.7	1839.2	2296.1	2986.6	3642.4	3666.9	3427.6	3201.3	2900.1	2621.9
70°	932.6	961.4	1235.3	1713.8	2472.0	3372.8	3406.0	3184.0	2865.5	2456.1	1938.7
72.5°	478.5	526.1	706.3	1114.2	1794.5	2787.6	2900.1	2673.8	2342.3	1777.2	1183.4
75°	253.7	250.8	333.0	603.9	1145.9	2091.5	2150.6	2005.0	1618.7	1059.4	602.5
77.5°	135.5	142.7	174.4	309.9	629.9	1336.2	1411.1	1292.9	922.5	542.0	288.3
80°	92.2	96.6	118.2	174.4	341.6	725.0	794.2	689.0	482.9	256.6	135.5
82.5°	59.1	62.0	80.7	108.1	204.7	351.7	370.4	353.1	236.4	145.6	82.2
85°	36.0	37.5	49.0	69.2	128.3	142.7	148.5	149.9	132.6	95.1	44.7
87.5°	17.3	18.7	27.4	34.6	60.5	51.9	47.6	49.0	73.5	56.2	20.2
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°	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3	533.3
2.5°	533.3	531.9	529.0	527.5	529.0	529.0	529.0	530.4	533.3	533.3	534.8
5°	533.3	530.4	527.5	527.5	530.4	533.3	536.2	542.0	544.8	546.3	546.3
7.5°	540.5	537.6	534.8	534.8	539.1	544.8	550.6	557.8	565.0	570.8	570.8
10°	554.9	550.6	547.7	549.2	556.4	563.6	570.8	579.4	586.6	593.9	593.9
12.5°	570.8	566.5	562.1	565.0	575.1	583.8	591.0	595.3	602.5	608.3	608.3
15°	586.6	579.4	578.0	583.8	593.9	599.6	602.5	602.5	605.4	611.1	611.1
17.5°	603.9	596.7	595.3	601.1	609.7	609.7	603.9	599.6	598.2	602.5	603.9
20°	621.2	614.0	614.0	618.4	616.9	606.8	596.7	589.5	583.8	588.1	589.5
22.5°	642.9	635.7	632.8	627.0	614.0	593.9	578.0	569.3	565.0	567.9	570.8
25°	664.5	658.7	651.5	631.3	601.1	569.3	549.2	542.0	543.4	549.2	552.1
27.5°	691.9	689.0	671.7	628.4	578.0	534.8	514.6	513.1	518.9	527.5	531.9
30°	725.0	720.7	690.4	619.8	546.3	494.4	480.0	482.9	491.5	498.7	503.0
32.5°	748.1	745.2	699.1	599.6	507.4	458.4	446.8	446.8	451.2	461.2	465.6
35°	755.3	766.8	704.8	569.3	461.2	426.7	415.1	407.9	407.9	416.6	419.4
37.5°	779.8	805.7	707.7	529.0	423.8	397.8	383.4	370.4	366.1	364.7	364.7
40°	836.0	866.3	706.3	477.1	387.7	369.0	351.7	337.3	325.8	309.9	311.3
42.5°	934.0	957.1	702.0	422.3	356.0	343.1	325.8	308.5	289.7	272.4	271.0
45°	1122.8	1088.2	690.4	374.8	327.2	320.0	304.1	284.0	260.9	245.0	245.0
47.5°	1421.2	1326.1	683.2	330.1	301.3	299.8	285.4	263.8	240.7	229.2	227.7
50°	1830.6	1654.7	694.7	298.4	278.2	282.5	271.0	250.8	232.1	222.0	220.5
52.5°	2300.5	2007.9	707.7	278.2	260.9	269.5	263.8	245.0	226.3	217.6	216.2
55°	2663.7	2294.7	689.0	259.4	243.6	256.6	256.6	239.3	223.4	214.8	214.8
57.5°	2918.8	2410.0	624.1	242.2	229.2	245.0	249.4	236.4	222.0	219.1	219.1
60°	3028.4	2404.2	510.3	226.3	219.1	233.5	245.0	233.5	224.9	232.1	233.5
62.5°	2969.3	2278.8	396.4	214.8	211.9	230.6	249.4	245.0	234.9	240.7	243.6
65°	2702.6	2058.3	298.4	204.7	203.2	232.1	260.9	252.2	227.7	229.2	230.6
66°	2552.7	1909.8	273.9	201.8	200.4	233.5	266.7	249.4	222.0	224.9	223.4
67.5°	2232.7	1676.3	240.7	196.0	194.6	233.5	273.9	243.6	214.8	219.1	214.8
70°	1637.4	1186.3	206.1	188.8	185.9	229.2	272.4	232.1	198.9	196.0	188.8
72.5°	949.9	717.8	183.1	180.2	173.0	201.8	255.1	213.3	181.6	173.0	165.8
75°	467.0	364.7	162.9	170.1	151.3	177.3	230.6	197.5	167.2	155.7	151.3
77.5°	214.8	184.5	147.0	155.7	134.0	152.8	210.4	180.2	148.5	131.2	126.8
80°	116.8	115.3	124.0	129.7	112.4	134.0	185.9	157.1	125.4	106.7	100.9
82.5°	72.1	73.5	90.8	99.5	87.9	116.8	164.3	131.2	95.1	75.0	76.4
85°	37.5	41.8	60.5	66.3	57.7	86.5	124.0	87.9	53.3	38.9	38.9
87.5°	13.0	17.3	30.3	36.0	31.7	51.9	77.8	41.8	11.5	0.0	0.0
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)