

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: P573187

Luminaire Tested: **ARCH-S-PA2-40-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573187
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-PA2-40-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 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: 4865 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

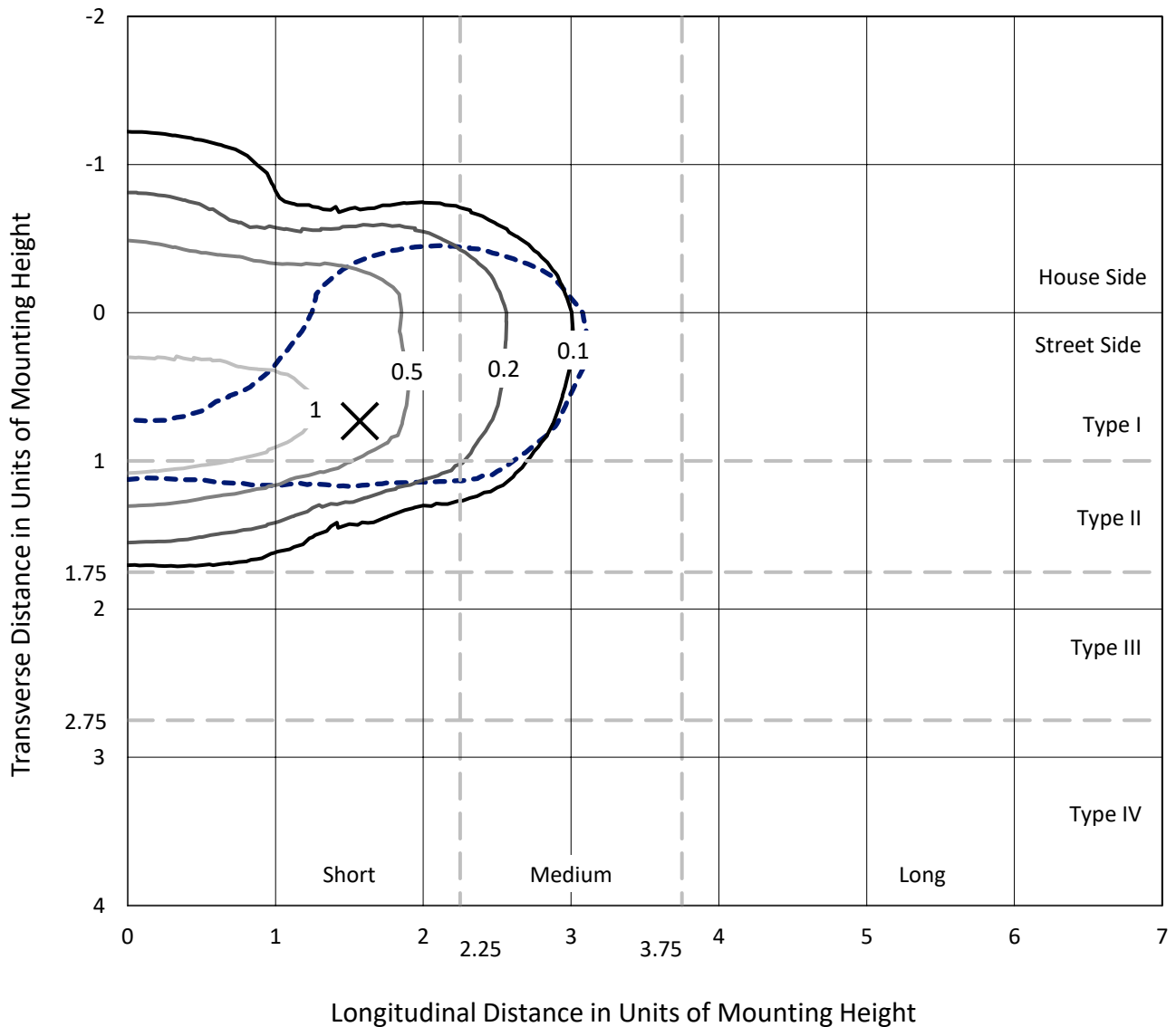
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

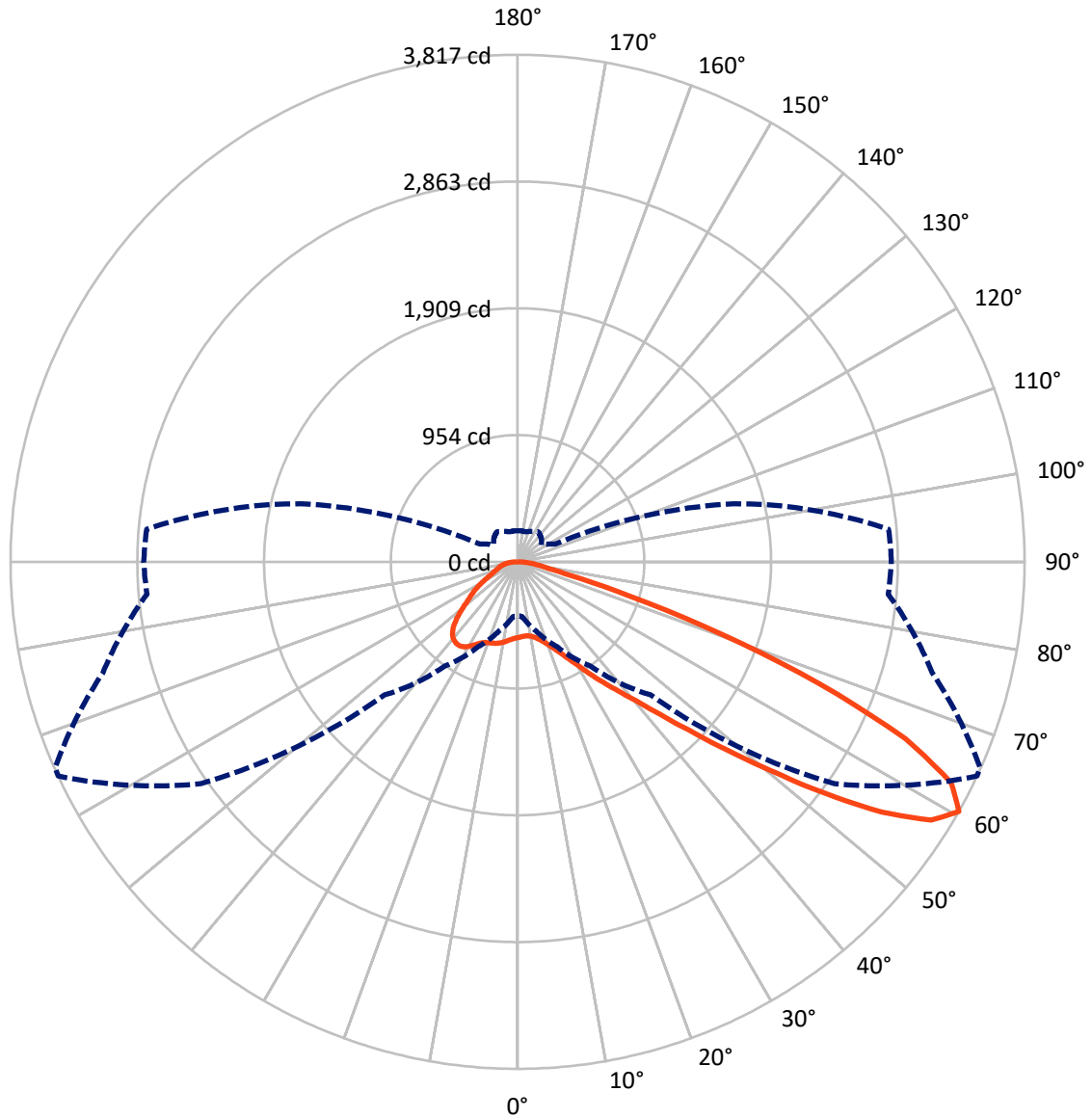
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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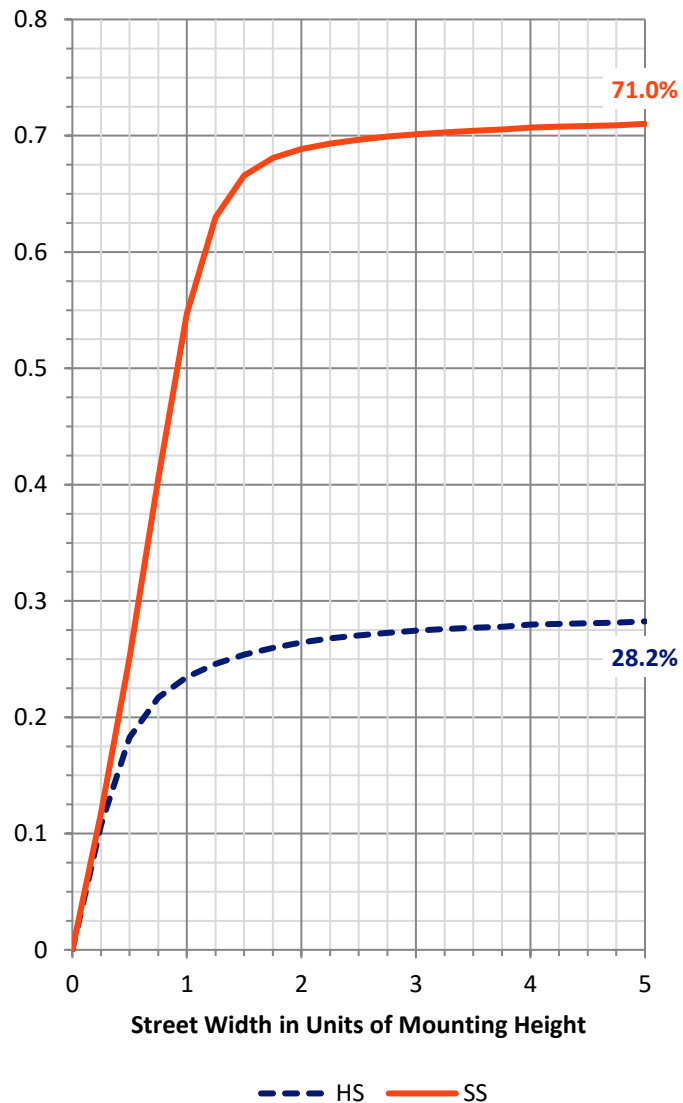
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.7	0.0	1392.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	3472.3	0.0	3472.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	4865.0	0.0	4865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.1
10°-20°	177.5	3.6
20°-30°	340.2	7.0
30°-40°	590.9	12.1
40°-50°	1002.2	20.6
50°-60°	1248.0	25.7
60°-70°	1005.6	20.7
70°-80°	380.8	7.8
80°-90°	64.6	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°	4865.0	100.0
0°-180°	4865.0	100.0

Coefficient of Utilization

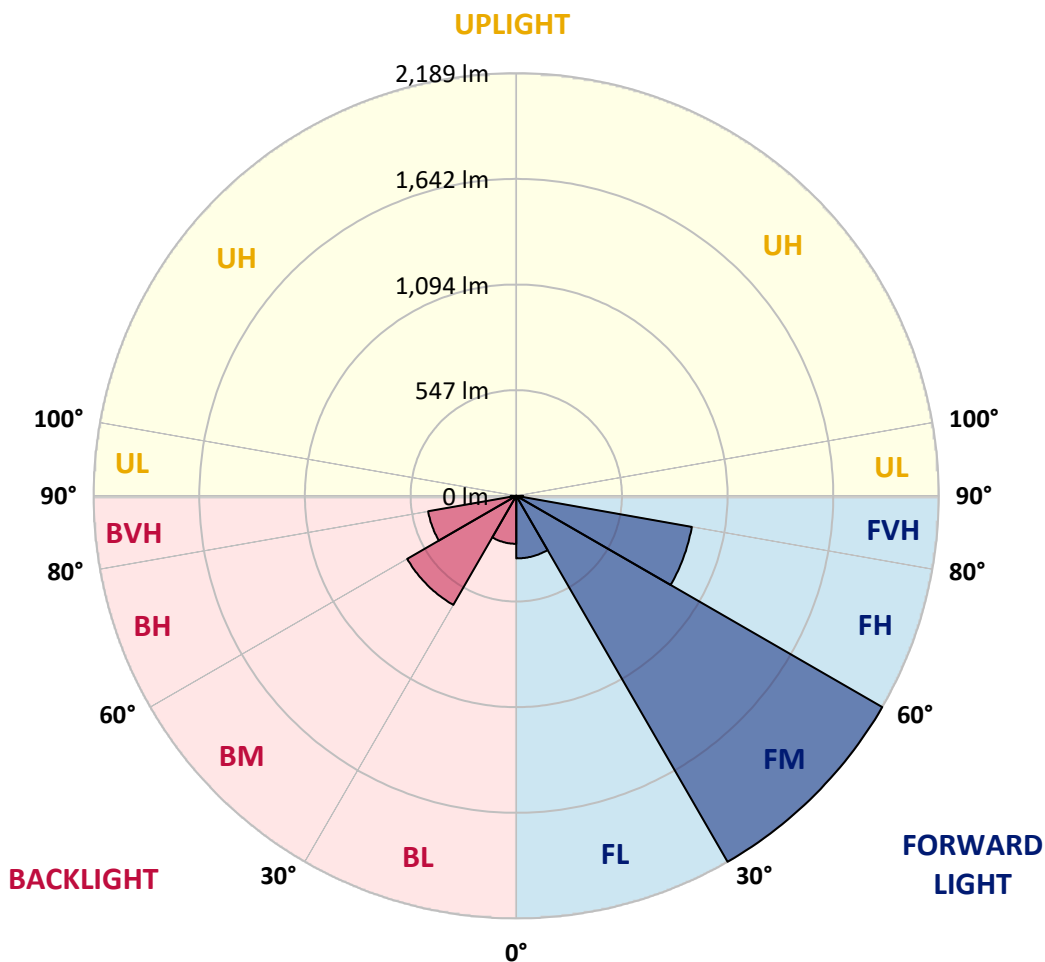


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.3	6.7			
FM (30°-60°)	2188.8	45.0			
FH (60°-80°)	923.4	19.0			G1/1800
FVH (80°-90°)	35.8	0.7			G1/100
BL (0°-30°)	248.6	5.1	B1/500		
BM (30°-60°)	652.3	13.4	B1/1000		
BH (60°-80°)	463.1	9.5	B1/500		G1/500
BVH (80°-90°)	28.8	0.6			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°	66°	75°	85°
0°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	557.5	557.5	557.5	558.8	560.1	561.5	564.1	564.1	564.1	565.5	568.1
5°	546.8	545.5	546.8	548.1	550.8	553.5	558.8	561.5	561.5	566.8	572.1
7.5°	548.1	545.5	545.5	546.8	549.5	552.1	557.5	561.5	562.8	569.5	578.8
10°	561.5	557.5	557.5	558.8	558.8	561.5	565.5	570.8	572.1	578.8	588.1
12.5°	589.5	585.5	584.1	580.1	576.1	578.8	582.8	584.1	585.5	589.5	598.8
15°	648.2	641.5	630.8	622.8	612.2	605.5	604.2	605.5	605.5	606.8	612.2
17.5°	732.2	724.2	708.2	690.8	665.5	644.2	637.5	632.2	632.2	628.2	628.2
20°	834.9	822.9	804.2	778.9	741.5	702.8	680.2	668.2	664.2	657.5	648.2
22.5°	953.6	945.6	921.6	882.9	826.9	774.9	737.5	710.8	710.8	694.8	674.8
25°	1093.6	1078.9	1050.9	1005.6	929.6	854.9	804.2	765.5	761.5	736.2	704.2
27.5°	1229.6	1220.3	1185.6	1125.6	1034.9	948.2	877.6	832.2	825.5	785.5	736.2
30°	1395.0	1384.3	1332.3	1248.3	1151.0	1052.3	969.6	910.9	904.2	849.5	780.2
32.5°	1600.4	1564.4	1500.4	1404.4	1279.0	1168.3	1073.6	1010.9	1002.9	940.2	857.5
35°	1849.8	1819.1	1708.4	1607.1	1457.7	1312.3	1199.0	1116.3	1105.6	1030.9	926.9
37.5°	2025.8	2011.2	1935.2	1855.1	1684.4	1488.4	1349.7	1235.0	1224.3	1125.6	990.9
40°	2136.5	2121.9	2100.5	2077.9	1983.2	1761.8	1531.1	1375.0	1357.7	1264.3	1118.9
42.5°	2193.9	2181.9	2185.9	2231.2	2257.9	2223.2	1789.8	1561.7	1549.7	1436.4	1275.0
45°	2160.5	2152.5	2191.2	2311.3	2441.9	2698.0	2121.9	1807.1	1775.1	1640.4	1464.4
47.5°	2000.5	1976.5	2067.2	2271.2	2551.3	2924.7	2522.0	2109.9	2075.2	1881.8	1656.4
50°	1671.1	1664.4	1788.5	2047.2	2508.6	3014.1	2950.1	2467.3	2441.9	2141.9	1869.8
52.5°	1364.3	1361.7	1457.7	1695.1	2236.6	2951.4	3260.8	2892.7	2816.7	2403.3	2101.9
55°	1058.9	1057.6	1143.0	1320.3	1784.5	2656.7	3407.5	3326.2	3270.2	2688.7	2340.6
57.5°	724.2	714.8	825.5	960.2	1340.3	2104.5	3311.5	3668.9	3634.3	2991.4	2594.0
60°	402.8	416.1	538.8	705.5	958.9	1417.7	2911.4	3817.0	3811.6	3232.8	2800.7
62.5°	285.4	290.7	342.8	501.5	630.8	812.2	2245.9	3663.6	3706.3	3366.2	2918.1
65°	237.4	240.1	265.4	370.8	461.4	469.5	1400.4	3208.8	3264.8	3324.8	2943.4
67.5°	224.1	225.4	238.7	273.4	361.4	340.1	625.5	2450.0	2568.6	2991.4	2778.0
70°	204.1	205.4	225.4	241.4	292.1	268.1	321.4	1627.1	1787.1	2364.6	2395.3
72.5°	174.7	178.7	194.7	226.7	237.4	222.7	248.1	869.6	1028.3	1581.7	1849.8
75°	150.7	153.4	165.4	192.0	222.7	177.4	210.7	396.1	464.1	928.2	1171.0
77.5°	121.4	122.7	140.0	157.4	186.7	144.0	164.0	237.4	249.4	453.4	529.5
80°	92.0	92.0	104.0	125.4	138.7	138.7	120.0	165.4	172.0	216.1	209.4
82.5°	70.7	69.4	78.7	88.0	100.0	116.0	90.7	109.4	112.0	130.7	112.0
85°	46.7	46.7	52.0	60.0	66.7	64.0	70.7	64.0	66.7	81.4	61.3
87.5°	20.0	20.0	28.0	26.7	29.3	30.7	34.7	30.7	30.7	37.3	28.0
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°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	569.5	570.8	573.5	574.8	578.8	580.1	580.1	582.8	582.8	585.5	585.5
5°	573.5	577.5	581.5	585.5	589.5	590.8	593.5	594.8	594.8	597.5	596.2
7.5°	581.5	585.5	593.5	597.5	602.8	605.5	604.2	605.5	604.2	605.5	605.5
10°	592.1	597.5	606.8	612.2	616.2	617.5	613.5	609.5	604.2	604.2	604.2
12.5°	604.2	608.2	620.2	624.2	626.8	622.8	612.2	604.2	600.2	601.5	600.2
15°	616.2	620.2	629.5	633.5	633.5	621.5	612.2	609.5	608.2	609.5	609.5
17.5°	628.2	632.2	640.2	640.2	636.2	626.8	617.5	608.2	601.5	597.5	597.5
20°	644.2	644.2	646.8	646.8	645.5	630.8	608.2	585.5	572.1	564.1	562.8
22.5°	665.5	660.2	654.8	654.8	660.2	621.5	577.5	542.8	521.5	518.8	513.5
25°	688.2	676.2	662.8	672.2	662.8	597.5	534.8	488.1	462.8	453.4	456.1
27.5°	712.2	693.5	673.5	700.2	649.5	550.8	474.8	422.8	398.8	392.1	392.1
30°	745.5	717.5	688.2	729.5	624.2	497.5	404.1	366.8	353.4	348.1	346.8
32.5°	809.5	766.9	724.2	756.2	596.2	428.1	356.1	333.4	317.4	312.1	316.1
35°	866.9	806.9	778.9	768.2	552.1	372.1	326.7	306.7	293.4	286.7	286.7
37.5°	918.9	861.6	840.2	768.2	494.8	337.4	308.1	292.1	274.7	269.4	269.4
40°	1032.3	956.2	918.9	757.5	424.1	320.1	298.7	280.1	265.4	260.1	258.7
42.5°	1188.3	1085.6	1000.3	733.5	364.1	312.1	293.4	272.1	260.1	256.1	254.7
45°	1353.7	1263.0	1077.6	690.8	325.4	304.1	292.1	269.4	254.7	250.7	249.4
47.5°	1553.7	1460.4	1167.0	625.5	298.7	298.7	290.7	265.4	252.1	248.1	248.1
50°	1775.1	1697.8	1280.3	550.8	278.7	294.7	288.1	265.4	250.7	246.7	245.4
52.5°	2001.8	1965.8	1399.0	477.5	258.7	289.4	286.7	265.4	248.1	244.1	244.1
55°	2289.9	2260.6	1536.4	422.8	242.7	278.7	286.7	262.7	244.1	241.4	241.4
57.5°	2572.6	2562.0	1643.1	374.8	230.7	265.4	282.7	258.7	240.1	238.7	238.7
60°	2814.0	2803.4	1688.4	314.7	218.7	252.1	274.7	252.1	233.4	234.7	234.7
62.5°	2963.4	2902.1	1655.1	260.1	206.7	240.1	265.4	244.1	226.7	230.7	229.4
65°	2990.1	2847.4	1525.7	217.4	193.4	226.7	254.7	234.7	217.4	226.7	225.4
67.5°	2794.0	2556.6	1283.0	189.4	180.0	212.1	242.7	221.4	206.7	220.1	216.1
70°	2369.9	2076.5	949.6	168.0	166.7	194.7	226.7	205.4	192.0	198.7	193.4
72.5°	1764.4	1499.0	614.8	152.0	152.0	174.7	204.1	185.4	172.0	173.4	168.0
75°	1100.3	921.6	349.4	137.4	137.4	154.7	181.4	162.7	153.4	148.0	154.7
77.5°	500.1	405.4	184.0	122.7	124.0	132.0	156.0	138.7	128.0	120.0	124.0
80°	185.4	165.4	120.0	105.4	108.0	109.4	125.4	110.7	101.4	96.0	93.4
82.5°	96.0	89.4	81.4	84.0	88.0	84.0	97.4	82.7	72.0	68.0	57.3
85°	48.0	46.7	49.3	56.0	61.3	52.0	58.7	53.3	44.0	32.0	32.0
87.5°	18.7	20.0	18.7	25.3	28.0	24.0	26.7	18.7	13.3	6.7	5.3
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)