

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: P573268

Luminaire Tested: **ARCH-S-PA2-50-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573268
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-PA2-50-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5820 lumens
Efficiency: N/A
Efficacy: 108.6 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): 53.6
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

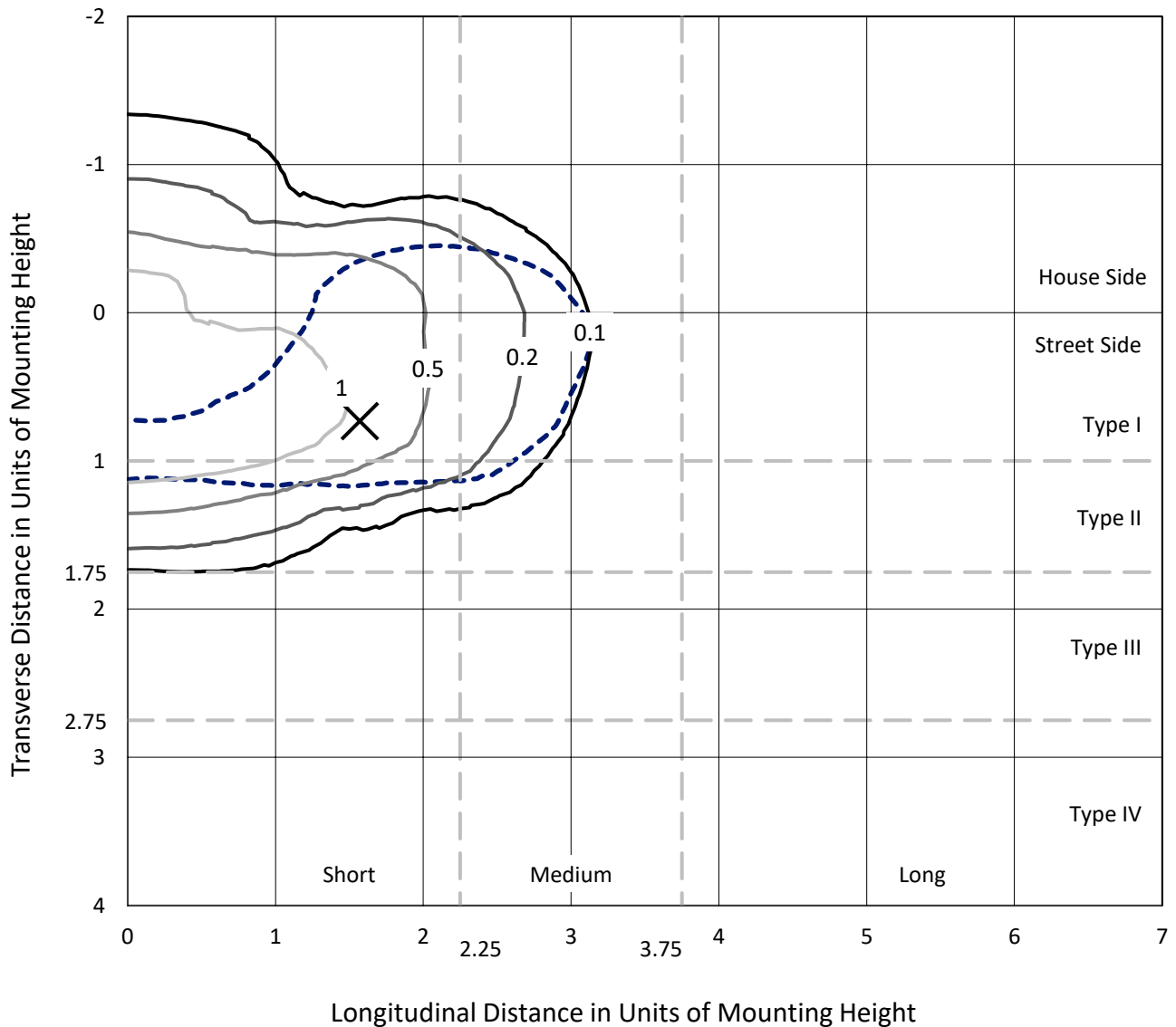




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Iso-Footcandle Lines of Horizontal Illumination

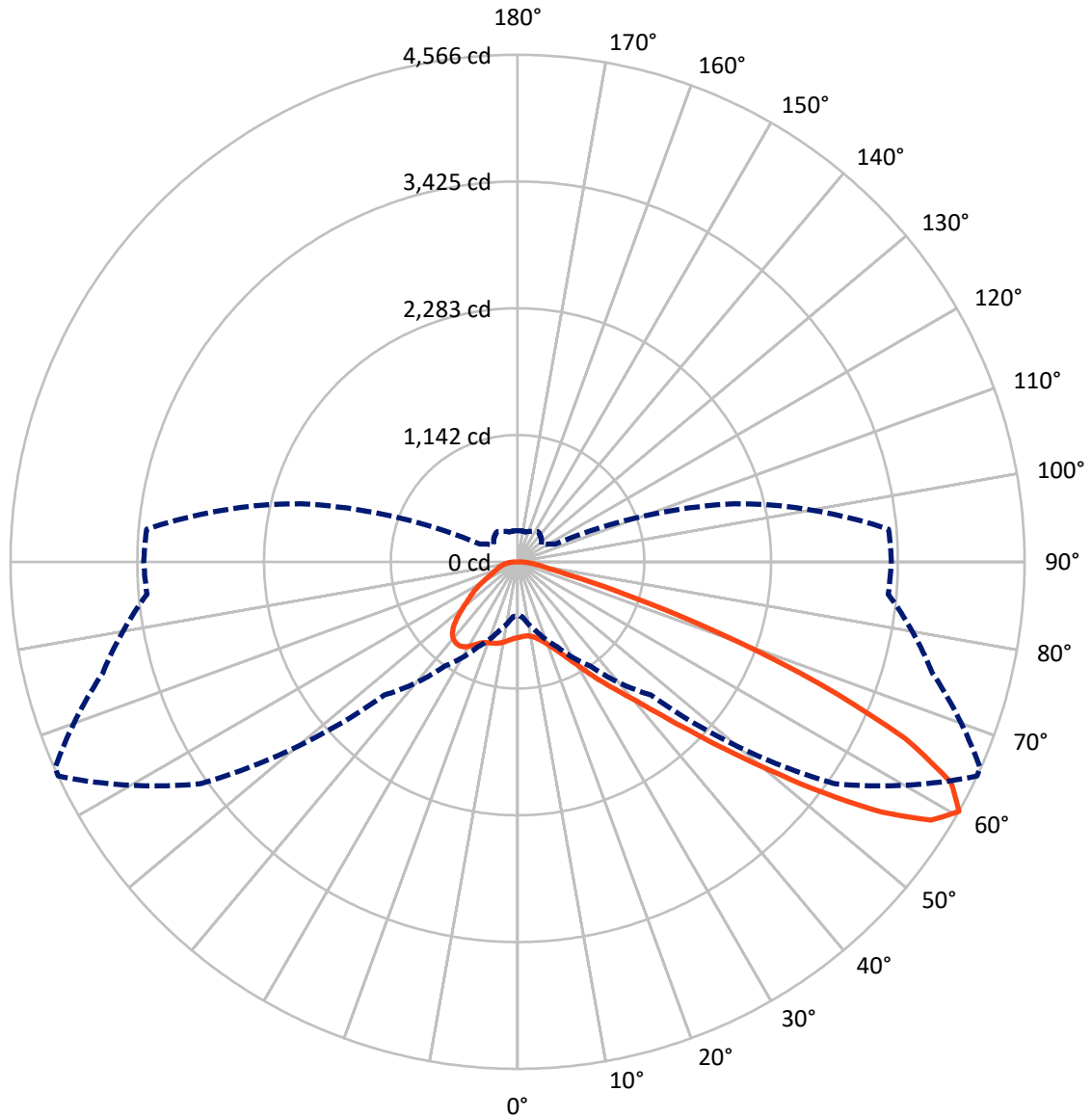
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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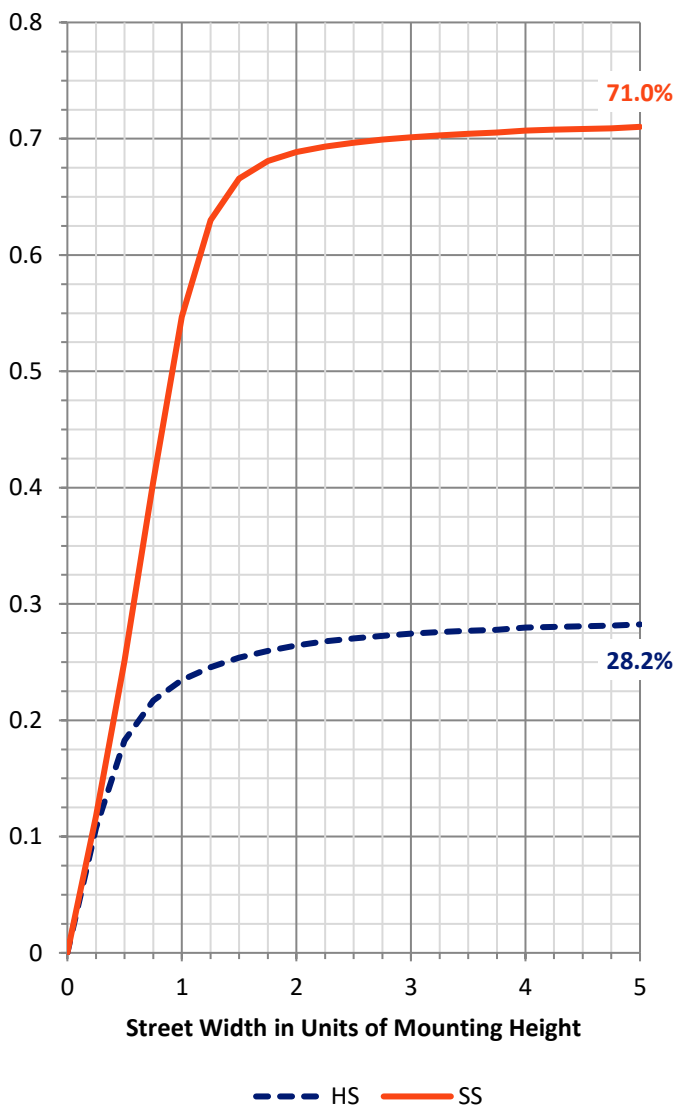
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1666.1	0.0	1666.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	4153.9	0.0	4153.9
	% Fixture	71.4	0.0	71.4
Total	Lumens	5820.0	0.0	5820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.1
10°-20°	212.3	3.6
20°-30°	407.0	7.0
30°-40°	706.9	12.1
40°-50°	1198.9	20.6
50°-60°	1492.9	25.7
60°-70°	1203.0	20.7
70°-80°	455.5	7.8
80°-90°	77.3	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°	5820.0	100.0
0°-180°	5820.0	100.0

Coefficient of Utilization



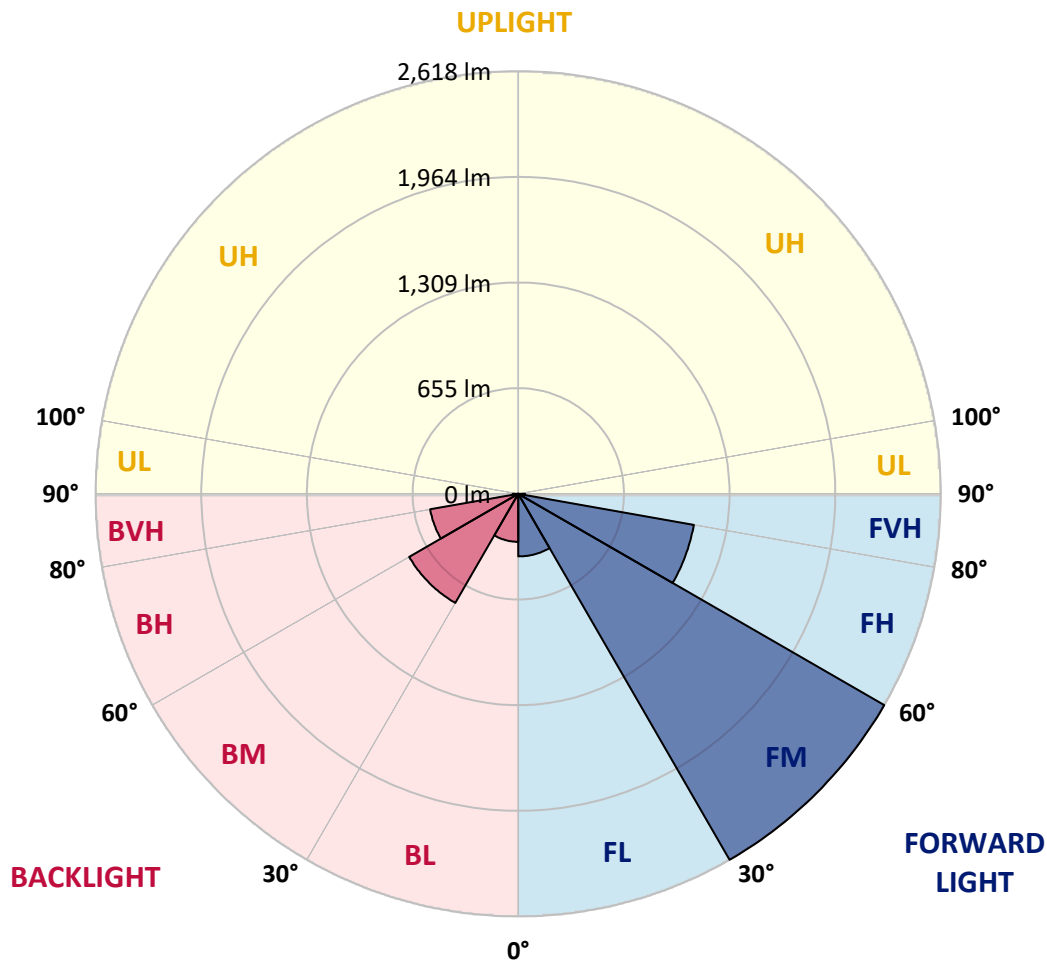
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.0	6.7			
FM (30°-60°)	2618.4	45.0			
FH (60°-80°)	1104.6	19.0			G1/1800
FVH (80°-90°)	42.9	0.7			G1/100
BL (0°-30°)	297.3	5.1	B1/500		
BM (30°-60°)	780.4	13.4	B1/1000		
BH (60°-80°)	554.0	9.5	B2/1000		G2/1000
BVH (80°-90°)	34.4	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°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	666.9	666.9	666.9	668.5	670.1	671.7	674.9	674.9	674.9	676.5	679.7
5°	654.1	652.5	654.1	655.7	658.9	662.1	668.5	671.7	671.7	678.1	684.5
7.5°	655.7	652.5	652.5	654.1	657.3	660.5	666.9	671.7	673.3	681.3	692.4
10°	671.7	666.9	666.9	668.5	668.5	671.7	676.5	682.9	684.5	692.4	703.6
12.5°	705.2	700.4	698.8	694.0	689.2	692.4	697.2	698.8	700.4	705.2	716.4
15°	775.4	767.4	754.7	745.1	732.3	724.3	722.7	724.3	724.3	725.9	732.3
17.5°	875.9	866.3	847.2	826.5	796.1	770.6	762.6	756.3	756.3	751.5	751.5
20°	998.8	984.4	962.1	931.8	887.1	840.8	813.7	799.3	794.5	786.6	775.4
22.5°	1140.8	1131.2	1102.5	1056.2	989.2	927.0	882.3	850.4	850.4	831.2	807.3
25°	1308.3	1290.7	1257.2	1203.0	1112.0	1022.7	962.1	915.8	911.0	880.7	842.4
27.5°	1471.0	1459.9	1418.4	1346.6	1238.1	1134.4	1049.8	995.6	987.6	939.7	880.7
30°	1668.9	1656.1	1593.9	1493.4	1376.9	1258.8	1159.9	1089.7	1081.7	1016.3	933.3
32.5°	1914.6	1871.5	1794.9	1680.0	1530.1	1397.6	1284.4	1209.4	1199.8	1124.8	1025.9
35°	2212.9	2176.2	2043.8	1922.5	1743.8	1569.9	1434.3	1335.4	1322.6	1233.3	1108.9
37.5°	2423.5	2406.0	2315.0	2219.3	2015.1	1780.5	1614.6	1477.4	1464.6	1346.6	1185.4
40°	2555.9	2538.4	2512.9	2485.7	2372.5	2107.6	1831.6	1644.9	1624.2	1512.5	1338.6
42.5°	2624.5	2610.2	2615.0	2669.2	2701.1	2659.6	2141.1	1868.3	1853.9	1718.3	1525.3
45°	2584.7	2575.1	2621.4	2764.9	2921.3	3227.6	2538.4	2161.9	2123.6	1962.4	1751.8
47.5°	2393.2	2364.5	2473.0	2717.1	3052.1	3498.9	3017.0	2524.0	2482.6	2251.2	1981.6
50°	1999.1	1991.1	2139.5	2449.0	3001.1	3605.8	3529.2	2951.6	2921.3	2562.3	2236.8
52.5°	1632.2	1629.0	1743.8	2027.8	2675.6	3530.8	3900.9	3460.6	3369.6	2875.0	2514.5
55°	1266.8	1265.2	1367.3	1579.5	2134.7	3178.2	4076.4	3979.1	3912.1	3216.5	2800.0
57.5°	866.3	855.2	987.6	1148.7	1603.4	2517.7	3961.6	4389.1	4347.7	3578.6	3103.2
60°	481.8	497.8	644.6	844.0	1147.1	1696.0	3482.9	4566.2	4559.9	3867.4	3350.5
62.5°	341.4	347.8	410.0	599.9	754.7	971.6	2686.8	4382.8	4433.8	4027.0	3490.9
65°	284.0	287.2	317.5	443.5	552.0	561.6	1675.2	3838.7	3905.7	3977.5	3521.2
67.5°	268.0	269.6	285.6	327.1	432.4	406.8	748.3	2930.9	3072.9	3578.6	3323.4
70°	244.1	245.7	269.6	288.8	349.4	320.7	384.5	1946.5	2137.9	2828.8	2865.5
72.5°	209.0	213.8	232.9	271.2	284.0	266.4	296.8	1040.2	1230.1	1892.2	2212.9
75°	180.3	183.5	197.8	229.7	266.4	212.2	252.1	473.9	555.2	1110.4	1400.8
77.5°	145.2	146.8	167.5	188.3	223.4	172.3	196.2	284.0	298.4	542.5	633.4
80°	110.1	110.1	124.4	150.0	165.9	165.9	143.6	197.8	205.8	258.5	250.5
82.5°	84.6	83.0	94.1	105.3	119.7	138.8	108.5	130.8	134.0	156.4	134.0
85°	55.8	55.8	62.2	71.8	79.8	76.6	84.6	76.6	79.8	97.3	73.4
87.5°	23.9	23.9	33.5	31.9	35.1	36.7	41.5	36.7	36.7	44.7	33.5
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°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	681.3	682.9	686.1	687.6	692.4	694.0	694.0	697.2	697.2	700.4	700.4
5°	686.1	690.8	695.6	700.4	705.2	706.8	710.0	711.6	711.6	714.8	713.2
7.5°	695.6	700.4	710.0	714.8	721.2	724.3	722.7	724.3	722.7	724.3	724.3
10°	708.4	714.8	725.9	732.3	737.1	738.7	733.9	729.1	722.7	722.7	722.7
12.5°	722.7	727.5	741.9	746.7	749.9	745.1	732.3	722.7	718.0	719.6	718.0
15°	737.1	741.9	753.1	757.8	757.8	743.5	732.3	729.1	727.5	729.1	729.1
17.5°	751.5	756.3	765.8	765.8	761.0	749.9	738.7	727.5	719.6	714.8	714.8
20°	770.6	770.6	773.8	773.8	772.2	754.7	727.5	700.4	684.5	674.9	673.3
22.5°	796.1	789.8	783.4	783.4	789.8	743.5	690.8	649.4	623.8	620.6	614.3
25°	823.3	808.9	792.9	804.1	792.9	714.8	639.8	583.9	553.6	542.5	545.7
27.5°	852.0	829.6	805.7	837.6	777.0	658.9	568.0	505.8	477.0	469.1	469.1
30°	891.9	858.4	823.3	872.7	746.7	595.1	483.4	438.8	422.8	416.4	414.8
32.5°	968.5	917.4	866.3	904.6	713.2	512.1	426.0	398.9	379.7	373.3	378.1
35°	1037.1	965.3	931.8	919.0	660.5	445.1	390.9	367.0	351.0	343.0	343.0
37.5°	1099.3	1030.7	1005.1	919.0	591.9	403.7	368.6	349.4	328.7	322.3	322.3
40°	1234.9	1144.0	1099.3	906.2	507.4	382.9	357.4	335.0	317.5	311.1	309.5
42.5°	1421.6	1298.7	1196.6	877.5	435.6	373.3	351.0	325.5	311.1	306.3	304.7
45°	1619.4	1510.9	1289.1	826.5	389.3	363.8	349.4	322.3	304.7	299.9	298.4
47.5°	1858.7	1747.0	1396.0	748.3	357.4	357.4	347.8	317.5	301.5	296.8	296.8
50°	2123.6	2031.0	1531.7	658.9	333.5	352.6	344.6	317.5	299.9	295.2	293.6
52.5°	2394.8	2351.7	1673.6	571.2	309.5	346.2	343.0	317.5	296.8	292.0	292.0
55°	2739.4	2704.3	1838.0	505.8	290.4	333.5	343.0	314.3	292.0	288.8	288.8
57.5°	3077.7	3064.9	1965.6	448.3	276.0	317.5	338.2	309.5	287.2	285.6	285.6
60°	3366.4	3353.7	2019.9	376.5	261.7	301.5	328.7	301.5	279.2	280.8	280.8
62.5°	3545.1	3471.7	1980.0	311.1	247.3	287.2	317.5	292.0	271.2	276.0	274.4
65°	3577.0	3406.3	1825.2	260.1	231.3	271.2	304.7	280.8	260.1	271.2	269.6
67.5°	3342.5	3058.5	1534.8	226.6	215.4	253.7	290.4	264.8	247.3	263.3	258.5
70°	2835.1	2484.1	1136.0	201.0	199.4	232.9	271.2	245.7	229.7	237.7	231.3
72.5°	2110.8	1793.3	735.5	181.9	181.9	209.0	244.1	221.8	205.8	207.4	201.0
75°	1316.3	1102.5	418.0	164.3	164.3	185.1	217.0	194.6	183.5	177.1	185.1
77.5°	598.3	485.0	220.2	146.8	148.4	158.0	186.7	165.9	153.2	143.6	148.4
80°	221.8	197.8	143.6	126.0	129.2	130.8	150.0	132.4	121.3	114.9	111.7
82.5°	114.9	106.9	97.3	100.5	105.3	100.5	116.5	98.9	86.2	81.4	68.6
85°	57.4	55.8	59.0	67.0	73.4	62.2	70.2	63.8	52.7	38.3	38.3
87.5°	22.3	23.9	22.3	30.3	33.5	28.7	31.9	22.3	16.0	8.0	6.4
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)