

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: P573140

Luminaire Tested: **ARCH-S-PA2-40-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6123 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

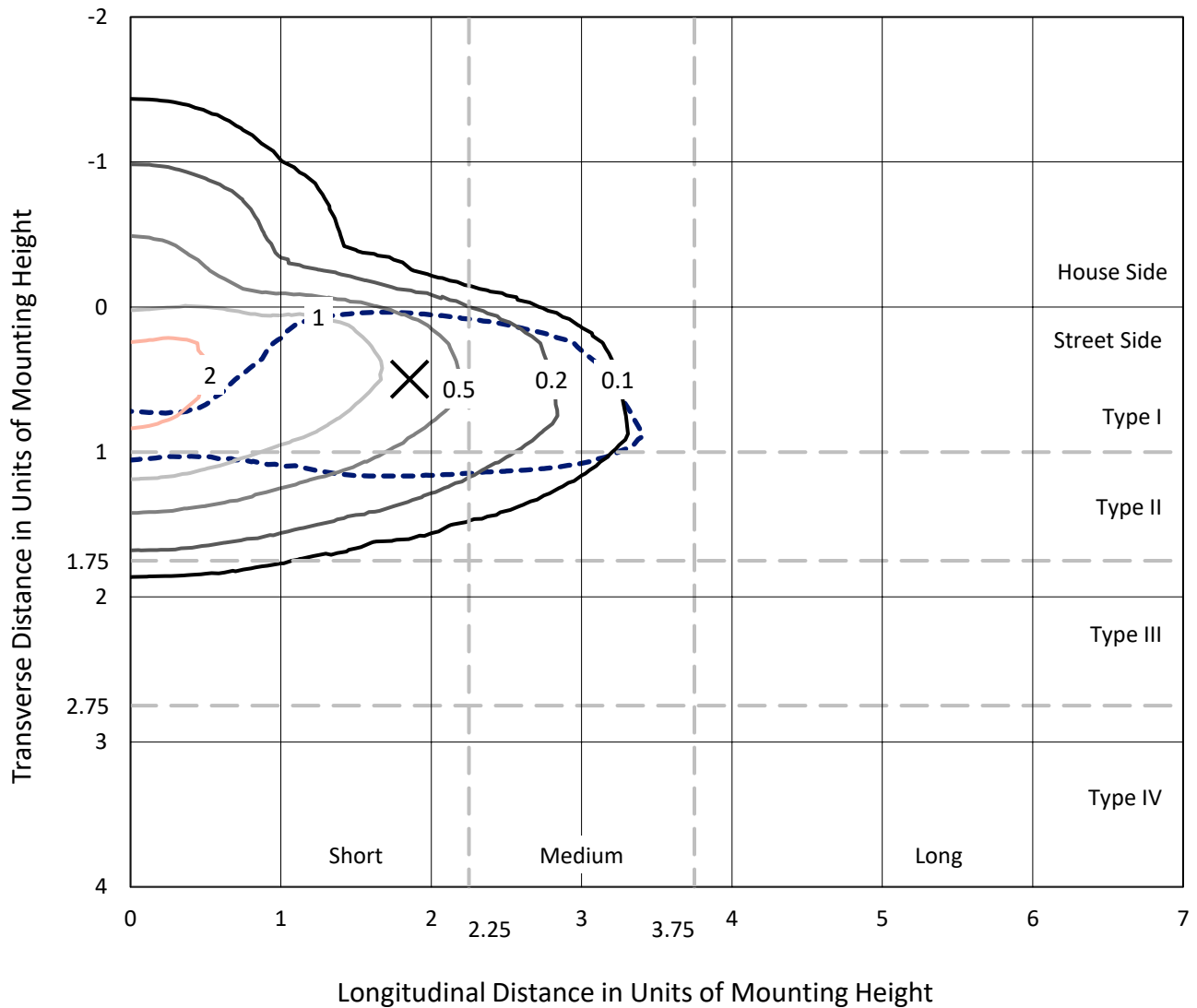
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

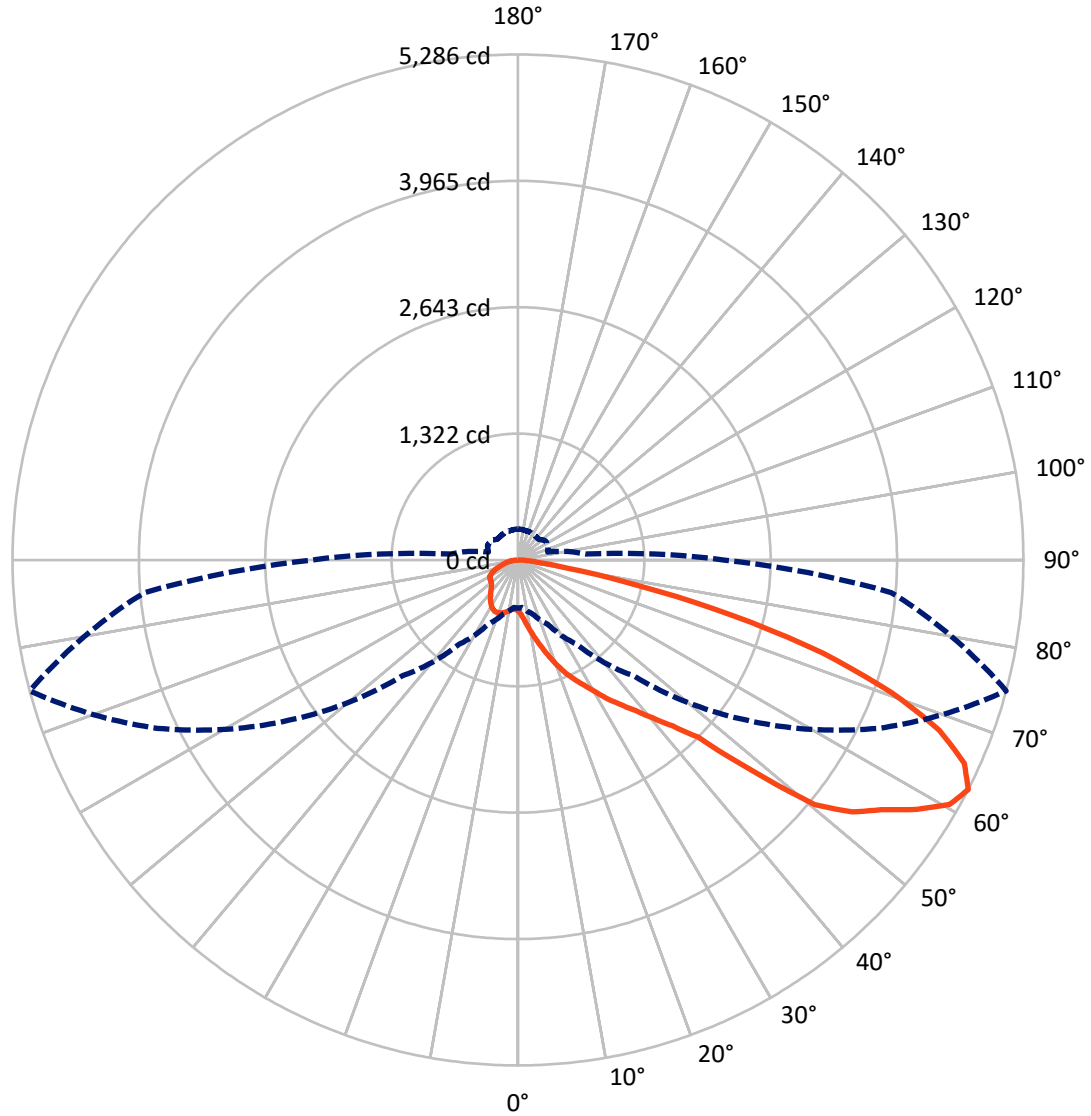
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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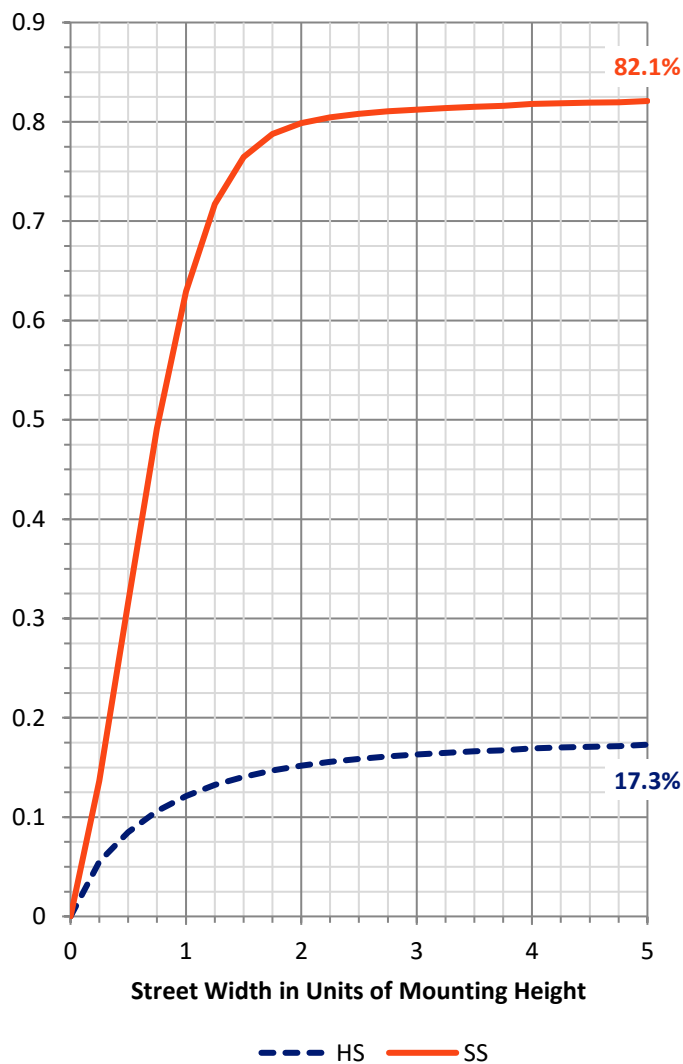
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.9	0.0	1079.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	5043.1	0.0	5043.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	6123.0	0.0	6123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.0
10°-20°	253.4	4.1
20°-30°	501.3	8.2
30°-40°	835.5	13.6
40°-50°	1232.9	20.1
50°-60°	1482.1	24.2
60°-70°	1151.9	18.8
70°-80°	509.6	8.3
80°-90°	92.3	1.5
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°	6123.0	100.0
0°-180°	6123.0	100.0

Coefficient of Utilization



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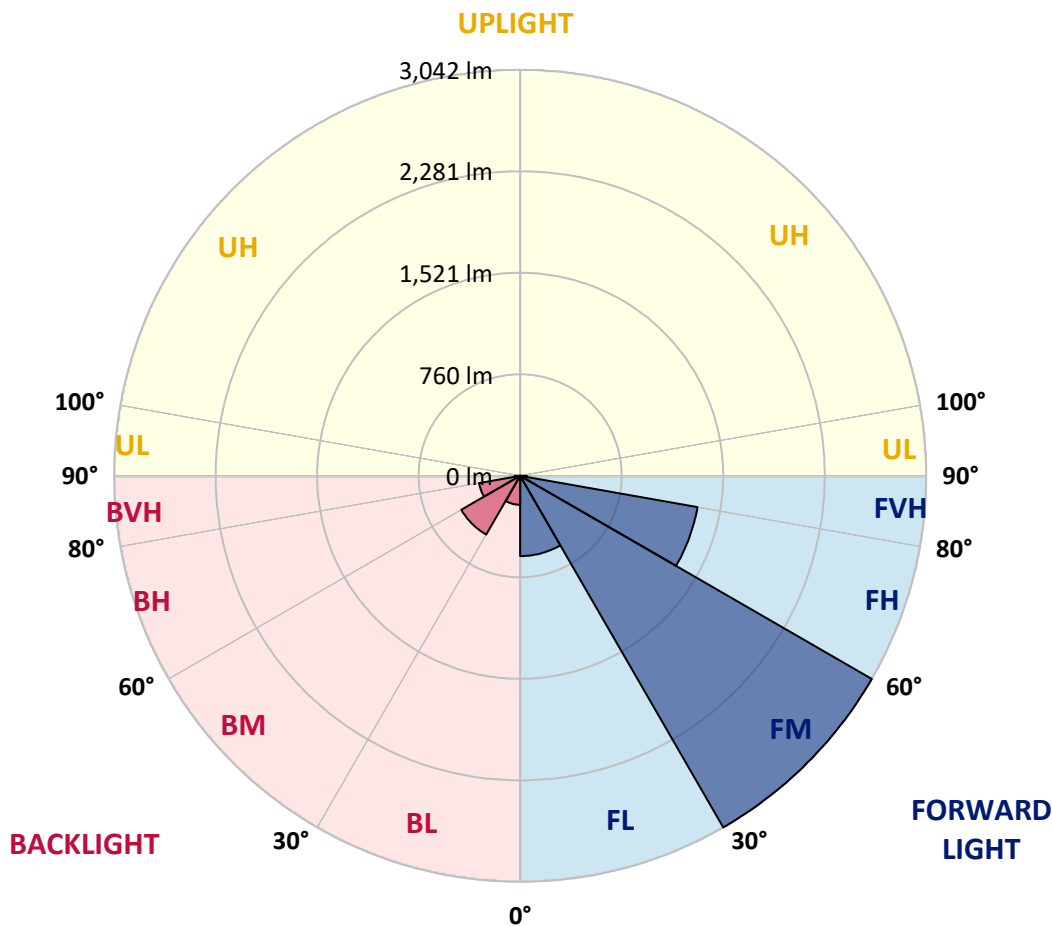
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.4	9.8			
FM (30°-60°)	3041.9	49.7			
FH (60°-80°)	1349.0	22.0			G1/1800
FVH (80°-90°)	50.7	0.8			G1/100
BL (0°-30°)	217.3	3.5	B1/500		
BM (30°-60°)	508.6	8.3	B1/1000		
BH (60°-80°)	312.4	5.1	B1/500		G1/500
BVH (80°-90°)	41.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7
2.5°	682.4	662.6	662.6	641.1	642.8	624.6	604.8	584.9	563.5	546.9	538.7
5°	892.3	877.4	872.5	847.7	808.0	763.4	715.5	665.9	614.7	575.0	555.2
7.5°	1088.9	1077.4	1070.7	1042.7	988.1	940.2	864.2	773.3	685.7	611.4	581.6
10°	1234.3	1226.1	1212.9	1199.6	1160.0	1118.7	1024.5	895.6	766.7	656.0	611.4
12.5°	1340.1	1328.5	1328.5	1326.9	1300.4	1262.4	1174.8	1036.0	860.9	705.6	644.4
15°	1411.1	1409.5	1414.4	1424.4	1417.8	1393.0	1305.4	1164.9	956.7	761.8	682.4
17.5°	1464.0	1457.4	1467.3	1493.8	1513.6	1503.7	1431.0	1288.9	1062.5	822.9	723.7
20°	1521.9	1508.6	1521.9	1554.9	1579.7	1594.6	1559.9	1407.8	1176.5	889.0	763.4
22.5°	1632.6	1630.9	1624.3	1634.2	1650.7	1677.2	1657.3	1528.5	1287.2	955.1	809.7
25°	1830.8	1812.7	1794.5	1773.0	1754.8	1763.1	1746.6	1640.8	1388.0	1027.8	849.3
27.5°	2052.3	2032.4	1999.4	1946.5	1896.9	1867.2	1832.5	1738.3	1485.5	1093.9	887.3
30°	2255.5	2248.9	2199.3	2141.5	2055.6	2001.0	1934.9	1850.7	1602.8	1166.6	927.0
32.5°	2445.5	2432.3	2382.7	2321.6	2220.8	2159.7	2068.8	1973.0	1736.7	1255.8	968.3
35°	2609.1	2595.9	2538.1	2460.4	2372.8	2320.0	2215.9	2082.0	1858.9	1333.5	1003.0
37.5°	2733.1	2718.2	2663.7	2587.6	2510.0	2485.2	2396.0	2220.8	1997.7	1431.0	1046.0
40°	2802.5	2784.3	2747.9	2695.0	2630.6	2619.0	2581.0	2392.7	2172.9	1549.9	1108.8
42.5°	2810.7	2794.2	2774.4	2769.4	2764.4	2774.4	2792.5	2587.6	2372.8	1708.6	1201.3
45°	2738.0	2728.1	2729.7	2785.9	2863.6	2954.5	3063.5	2875.2	2642.2	2011.0	1409.5
47.5°	2582.7	2577.7	2614.1	2708.3	2881.8	3088.3	3397.3	3367.6	3280.0	2498.4	1677.2
50°	2331.5	2323.3	2400.9	2549.6	2797.5	3132.9	3622.0	3947.6	4020.3	2876.8	1852.3
52.5°	1971.3	1981.2	2101.8	2305.1	2604.2	3085.0	3714.6	4185.5	4377.2	3156.1	1986.2
55°	1602.8	1587.9	1697.0	1948.2	2318.3	2909.9	3732.7	4322.7	4608.5	3413.8	2116.7
57.5°	1168.2	1204.6	1320.3	1548.3	1949.8	2592.6	3627.0	4416.8	4919.2	3671.6	2237.3
60°	791.5	791.5	893.9	1122.0	1507.0	2207.6	3344.4	4382.1	5190.2	3873.2	2263.8
62.5°	504.0	499.0	581.6	743.6	1079.0	1715.2	2921.4	4164.0	5286.0	3921.1	2153.1
65°	318.9	325.5	355.3	454.4	690.7	1217.8	2344.7	3729.4	5129.0	3810.4	1959.7
67.5°	256.1	257.8	272.6	314.0	424.7	781.6	1738.3	3129.6	4753.9	3531.2	1733.4
70°	226.4	229.7	233.0	247.9	290.8	494.1	1141.8	2519.9	4139.2	3045.4	1490.5
72.5°	206.5	209.9	213.2	216.5	239.6	322.2	674.2	1910.2	3339.5	2339.8	1136.8
75°	190.0	193.3	193.3	195.0	208.2	239.6	370.1	1317.0	2324.9	1455.8	708.9
77.5°	170.2	171.8	171.8	175.2	188.4	188.4	229.7	814.6	1290.5	659.3	358.6
80°	143.8	147.1	147.1	152.0	165.2	145.4	153.7	416.4	535.4	271.0	160.3
82.5°	105.8	112.4	115.7	123.9	132.2	110.7	110.7	209.9	226.4	120.6	85.9
85°	57.8	59.5	85.9	92.5	97.5	66.1	74.4	104.1	112.4	52.9	43.0
87.5°	16.5	18.2	41.3	51.2	46.3	28.1	31.4	39.7	39.7	14.9	11.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7
2.5°	532.1	518.9	507.3	499.0	490.8	485.8	484.2	480.8	480.8	482.5
5°	538.7	515.5	497.4	487.5	480.8	477.5	475.9	475.9	477.5	477.5
7.5°	555.2	520.5	504.0	495.7	489.1	485.8	485.8	484.2	485.8	485.8
10°	578.3	535.4	517.2	507.3	502.3	497.4	495.7	494.1	494.1	494.1
12.5°	603.1	551.9	532.1	520.5	512.2	505.6	502.3	499.0	497.4	497.4
15°	626.3	568.4	542.0	528.8	517.2	507.3	500.7	495.7	494.1	494.1
17.5°	651.0	580.0	548.6	530.4	515.5	502.3	494.1	487.5	484.2	484.2
20°	677.5	588.3	548.6	525.5	505.6	492.4	482.5	475.9	469.3	469.3
22.5°	699.0	591.6	542.0	513.9	494.1	477.5	467.6	459.4	454.4	454.4
25°	717.1	588.3	527.1	495.7	472.6	457.7	447.8	441.2	436.2	436.2
27.5°	728.7	575.0	508.9	475.9	454.4	439.5	432.9	426.3	423.0	423.0
30°	735.3	558.5	485.8	454.4	432.9	424.7	421.4	414.7	409.8	408.1
32.5°	738.6	533.7	462.7	432.9	418.1	414.7	414.7	406.5	399.9	398.2
35°	735.3	507.3	439.5	414.7	409.8	411.4	408.1	398.2	390.0	386.7
37.5°	730.4	475.9	414.7	401.5	406.5	409.8	399.9	386.7	373.4	370.1
40°	727.1	447.8	394.9	388.3	403.2	404.8	386.7	361.9	352.0	348.7
42.5°	743.6	419.7	376.7	378.4	394.9	396.6	363.5	352.0	345.3	343.7
45°	799.8	394.9	361.9	371.8	385.0	378.4	352.0	350.3	345.3	343.7
47.5°	842.7	376.7	355.3	366.8	376.7	353.6	350.3	348.7	343.7	342.0
50°	857.6	365.2	353.6	363.5	365.2	342.0	347.0	347.0	342.0	340.4
52.5°	859.2	358.6	356.9	361.9	347.0	337.1	343.7	343.7	338.7	337.1
55°	865.9	355.3	358.6	361.9	327.2	330.5	337.1	338.7	333.8	332.1
57.5°	852.6	350.3	361.9	363.5	318.9	323.9	330.5	330.5	330.5	330.5
60°	801.4	340.4	360.2	360.2	312.3	315.6	322.2	325.5	327.2	327.2
62.5°	707.2	320.6	350.3	350.3	305.7	309.0	317.3	317.3	322.2	322.2
65°	588.3	292.5	330.5	328.8	299.1	302.4	312.3	309.0	317.3	318.9
67.5°	490.8	257.8	300.7	304.0	292.5	300.7	307.3	295.8	312.3	312.3
70°	391.6	216.5	261.1	275.9	280.9	302.4	297.4	279.3	300.7	295.8
72.5°	304.0	183.4	214.8	241.2	267.7	300.7	275.9	256.1	269.3	261.1
75°	221.4	152.0	176.8	199.9	249.5	295.8	254.5	224.7	224.7	221.4
77.5°	155.3	123.9	142.1	158.6	231.3	282.6	228.0	193.3	185.1	183.4
80°	105.8	97.5	112.4	122.3	204.9	256.1	196.6	160.3	145.4	142.1
82.5°	69.4	69.4	76.0	82.6	158.6	213.2	153.7	119.0	153.7	147.1
85°	39.7	41.3	41.3	47.9	87.6	150.4	109.1	119.0	71.1	66.1
87.5°	13.2	13.2	13.2	13.2	18.2	61.1	46.3	43.0	16.5	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)