

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: P397837

Luminaire Tested: **ARCH-S-PA1-50-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-50-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5139 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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: 28.75 FT

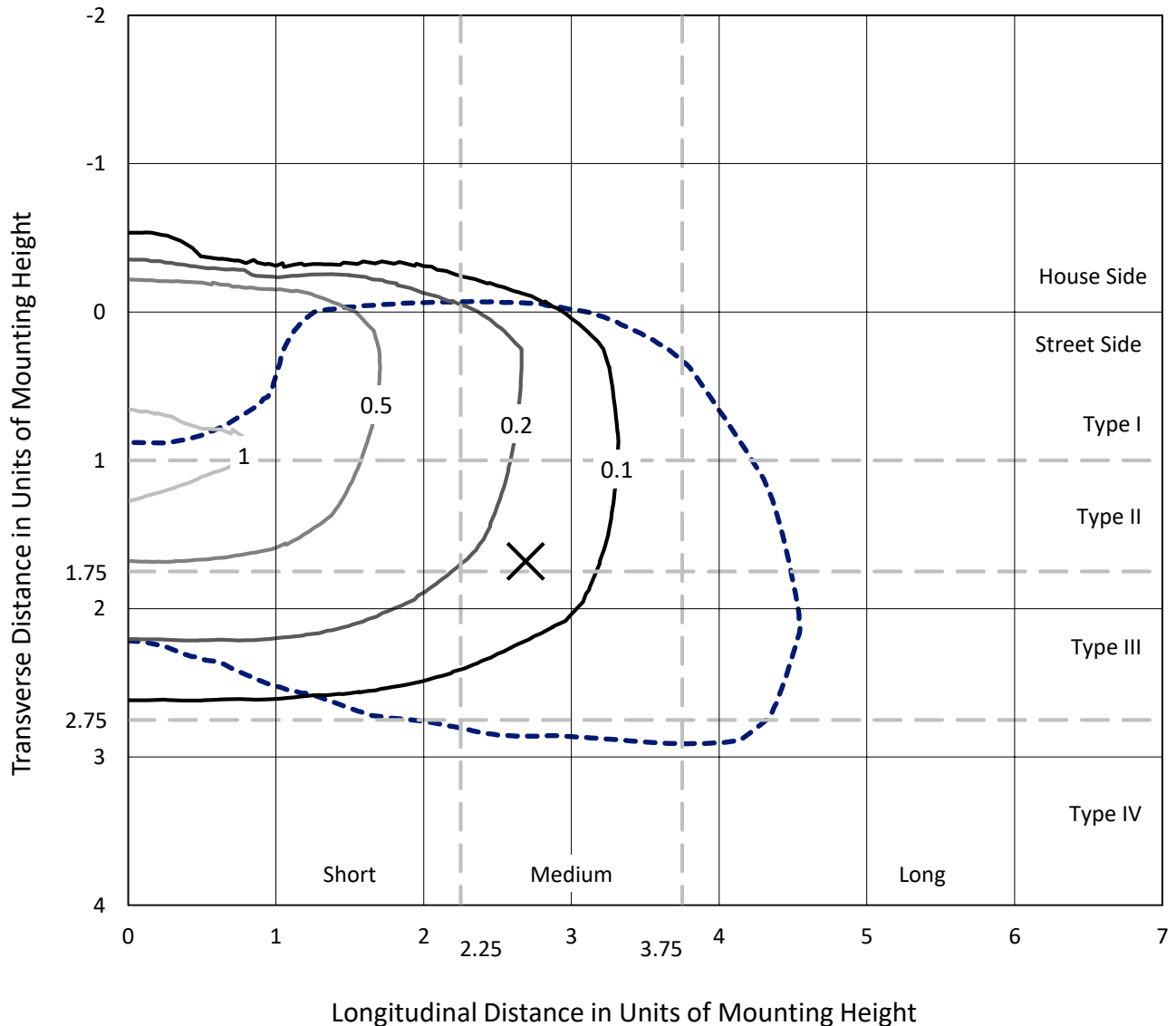


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

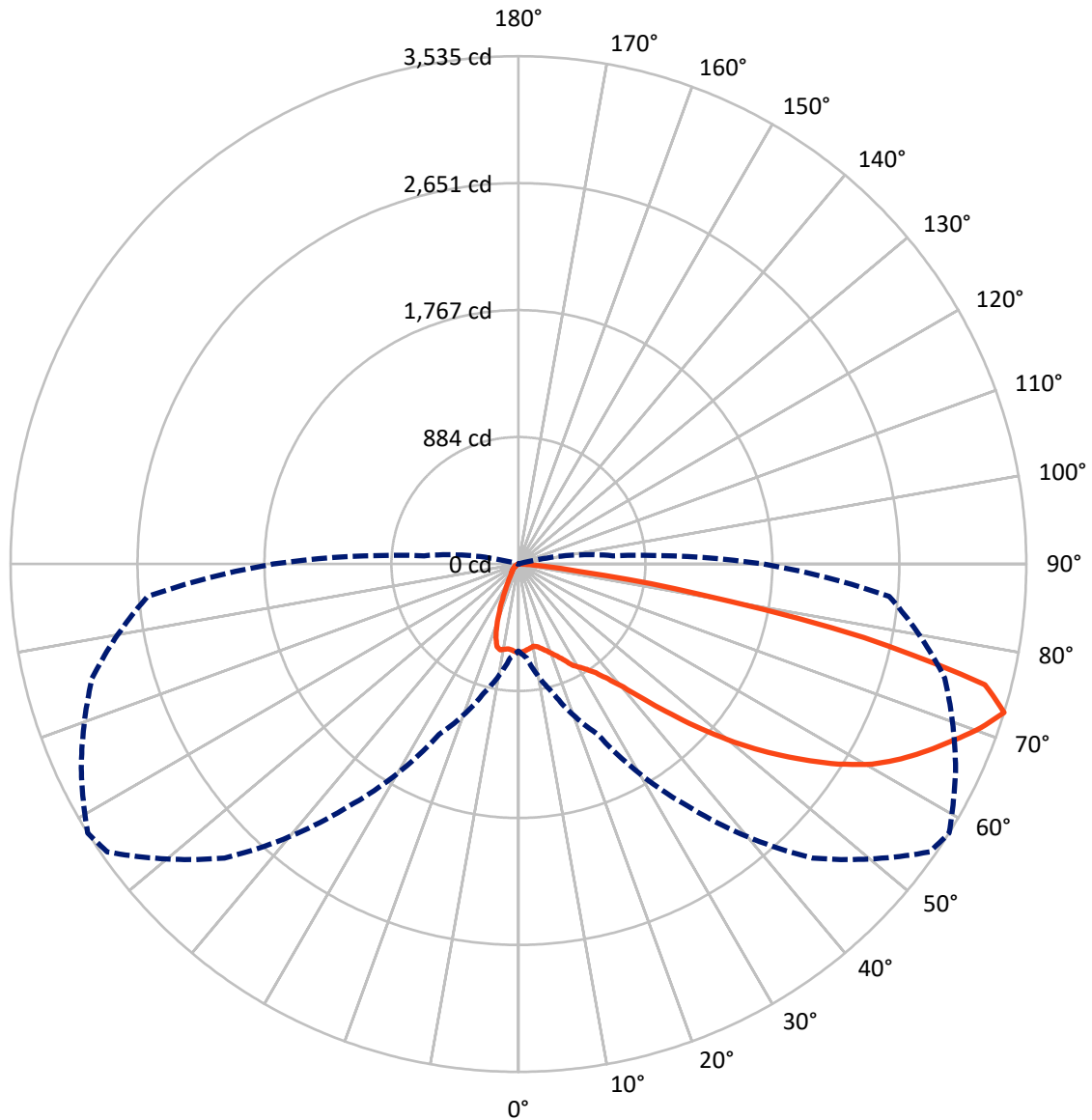


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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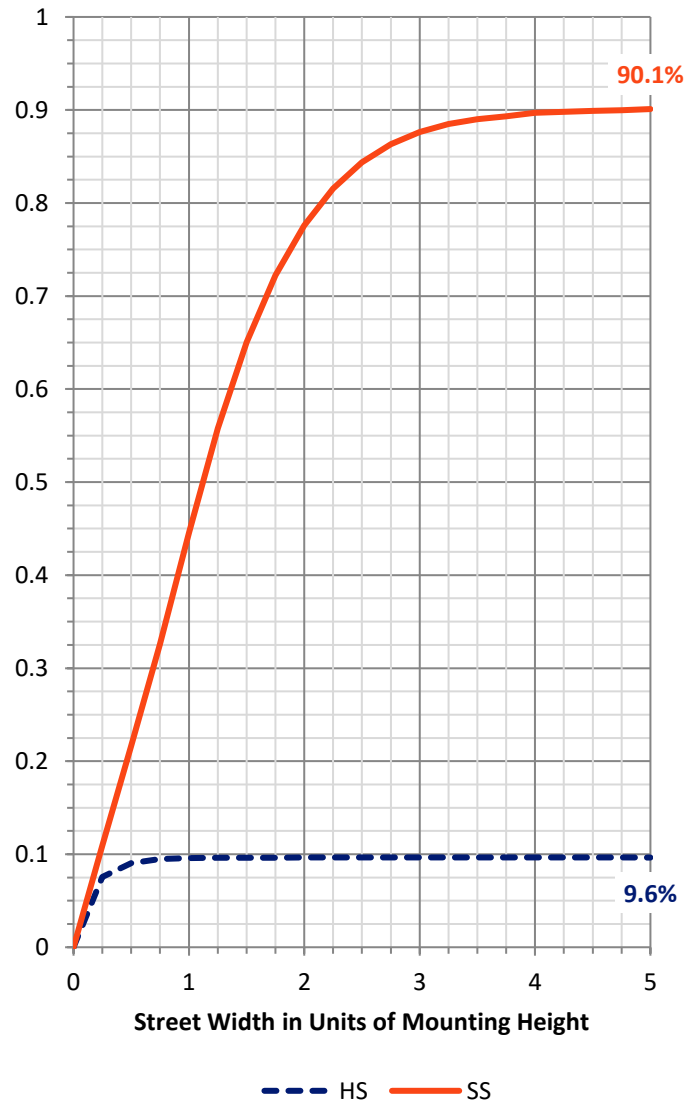
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	499.7	0.0	499.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4639.3	0.0	4639.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	5139.0	0.0	5139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	147.4	2.9
20°-30°	231.6	4.5
30°-40°	399.3	7.8
40°-50°	759.8	14.8
50°-60°	1203.2	23.4
60°-70°	1404.0	27.3
70°-80°	879.4	17.1
80°-90°	57.7	1.1
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°	5139.0	100.0
0°-180°	5139.0	100.0



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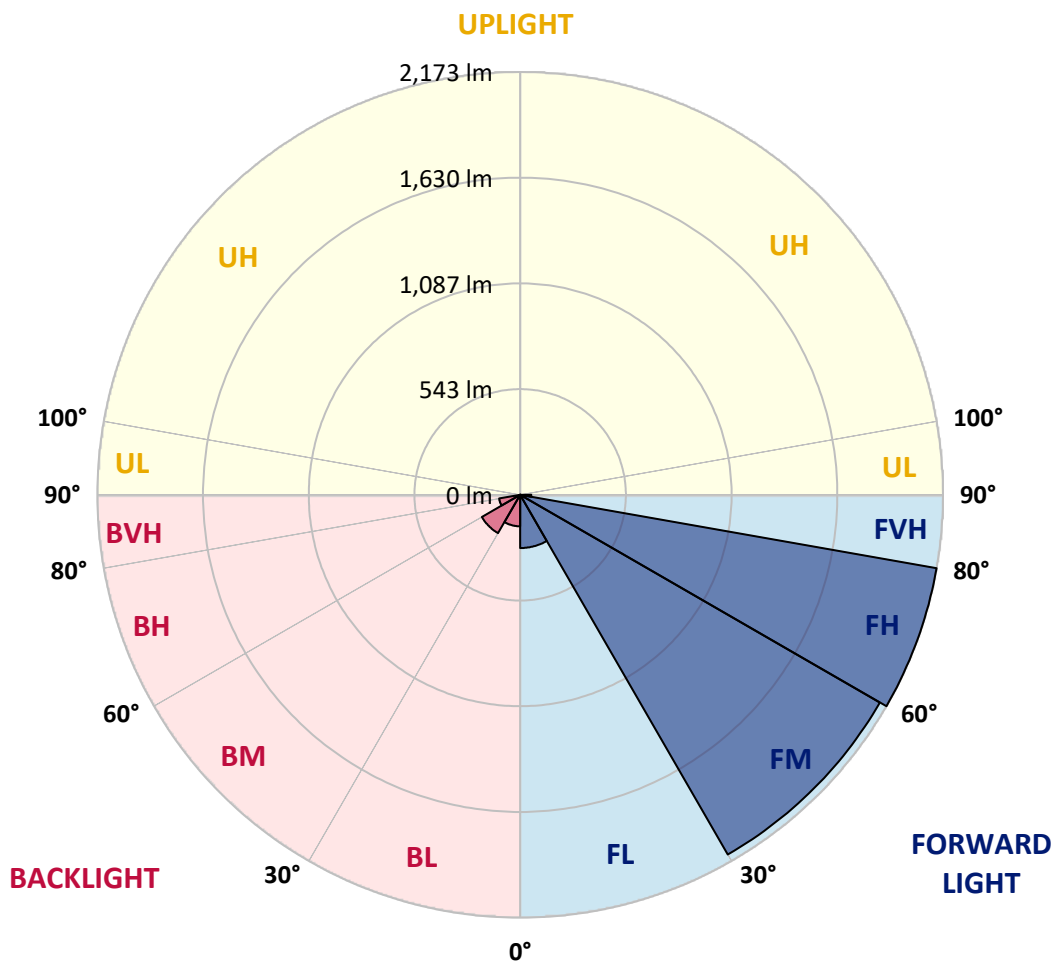
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.7	5.3			
FM	(30°-60°)	2135.0	41.5			
FH	(60°-80°)	2173.4	42.3			G2/5000
FVH	(80°-90°)	57.2	1.1			G1/100
BL	(0°-30°)	161.8	3.1	B1/500		
BM	(30°-60°)	227.4	4.4	B1/1000		
BH	(60°-80°)	110.0	2.1	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	613.9	611.1	610.2	609.3	610.2	611.1	608.4	611.1	609.3	610.2	612.1
5°	591.8	589.1	588.2	589.1	591.8	596.4	598.3	601.0	601.0	603.8	604.7
7.5°	567.0	565.2	564.3	566.1	571.6	581.7	587.2	590.9	594.6	600.1	605.6
10°	553.2	552.3	551.4	554.2	559.7	568.9	576.2	581.7	595.5	611.1	621.2
12.5°	544.0	544.0	545.9	551.4	558.8	566.1	583.6	590.9	612.1	635.9	649.7
15°	536.7	536.7	539.5	549.6	559.7	577.1	602.9	611.1	635.9	665.4	683.7
17.5°	531.2	533.0	534.9	545.0	564.3	593.7	624.0	635.9	666.3	698.4	718.7
20°	532.1	533.9	534.9	545.0	572.5	613.0	651.6	665.4	700.3	734.3	754.5
22.5°	537.6	540.4	541.3	555.1	587.2	633.2	682.8	698.4	736.1	772.0	787.6
25°	560.6	562.4	556.9	568.9	608.4	664.4	723.3	739.8	777.5	810.6	823.4
27.5°	638.7	640.5	610.2	596.4	624.9	690.2	772.9	795.9	842.7	864.8	866.6
30°	807.8	809.6	749.9	684.7	664.4	712.2	800.4	832.6	893.3	918.1	907.1
32.5°	1025.6	1023.8	942.0	845.5	758.2	750.8	840.0	874.0	940.1	964.0	955.8
35°	1244.3	1247.1	1177.2	1032.0	907.1	823.4	890.5	930.0	1010.0	1044.0	1029.3
37.5°	1394.1	1412.5	1382.2	1225.0	1089.9	957.6	972.3	1014.6	1114.7	1160.7	1129.5
40°	1605.5	1600.9	1527.4	1411.6	1292.1	1156.1	1104.6	1124.9	1239.7	1301.3	1252.6
42.5°	1889.5	1880.3	1755.3	1642.3	1509.0	1397.8	1293.0	1289.4	1383.1	1454.8	1384.0
45°	2146.8	2133.0	2047.5	1938.2	1792.0	1664.3	1522.8	1490.6	1555.9	1616.5	1533.8
47.5°	2351.7	2328.7	2268.1	2210.2	2174.4	1975.8	1763.6	1714.9	1747.9	1793.0	1676.3
50°	2594.3	2530.9	2442.7	2407.8	2482.2	2328.7	1995.1	1948.3	1946.4	1972.2	1823.3
52.5°	2704.6	2589.7	2540.1	2569.5	2700.9	2656.8	2245.1	2178.0	2151.4	2154.1	1960.2
55°	2571.4	2558.5	2585.1	2677.0	2848.9	2823.2	2485.0	2402.3	2362.7	2313.1	2091.6
57.5°	2419.7	2459.2	2564.9	2740.5	3036.4	2996.9	2721.2	2627.4	2554.8	2440.9	2237.8
60°	2280.0	2320.5	2495.1	2755.2	3139.3	3164.1	2917.8	2828.7	2721.2	2571.4	2398.6
62.5°	2067.7	2099.0	2344.4	2734.0	3094.3	3261.5	3054.8	2987.7	2887.5	2695.4	2583.3
65°	1828.8	1849.0	2091.6	2564.9	3006.0	3250.5	3167.8	3130.1	3032.7	2825.0	2766.2
67.5°	1566.9	1590.8	1793.0	2260.7	2833.3	3199.0	3274.4	3270.7	3159.5	2968.4	2898.5
70°	1265.5	1267.3	1434.6	1874.8	2531.8	3096.1	3406.7	3415.0	3280.8	3075.9	2904.0
72.5°	605.6	655.2	930.0	1308.7	2057.6	2893.9	3493.1	3534.5	3357.1	3072.2	2590.7
75°	138.8	143.4	271.1	622.2	1206.6	2221.2	3277.2	3354.3	3171.5	2656.8	1825.1
77.5°	50.5	53.3	76.3	182.0	464.1	1147.8	2345.3	2458.3	2344.4	1717.6	862.9
80°	34.0	33.1	39.5	80.9	213.2	325.3	1199.3	1266.4	1156.1	586.3	206.8
82.5°	17.5	18.4	27.6	45.0	143.4	113.0	400.7	435.6	358.4	117.6	38.6
85°	8.3	8.3	15.6	28.5	60.7	39.5	89.1	107.5	96.5	51.5	12.9
87.5°	8.3	8.3	14.7	18.4	31.2	16.5	22.1	27.6	25.7	27.6	4.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	612.1	611.1	610.2	612.1	611.1	613.0	613.0	614.8	614.8	613.0	612.1
5°	603.8	601.9	600.1	600.1	599.2	601.0	606.5	611.1	612.1	609.3	608.4
7.5°	604.7	604.7	602.9	599.2	592.8	592.8	592.8	598.3	601.0	599.2	598.3
10°	621.2	622.2	617.6	609.3	598.3	588.2	568.9	540.4	513.7	506.4	503.6
12.5°	649.7	650.7	641.5	626.8	603.8	544.0	470.5	402.5	350.1	335.4	332.7
15°	683.7	684.7	668.1	644.2	574.4	435.6	326.2	249.0	203.1	192.1	191.2
17.5°	718.7	716.8	692.0	646.1	487.1	308.8	198.5	159.0	147.0	144.3	145.2
20°	752.7	747.1	713.1	612.1	375.0	202.2	145.2	136.0	133.3	131.4	131.4
22.5°	783.9	772.9	730.6	545.0	262.8	145.2	129.6	127.7	124.1	121.3	120.4
25°	815.2	799.5	741.6	457.7	176.4	126.8	122.2	118.6	114.0	110.3	109.4
27.5°	852.8	830.8	736.1	347.4	132.3	117.6	114.0	108.4	102.0	96.5	94.7
30°	888.7	863.9	704.9	239.9	113.0	108.4	102.9	94.7	86.4	80.0	78.1
32.5°	933.7	905.2	648.8	157.1	98.3	94.7	89.1	79.0	68.0	60.7	58.8
35°	998.0	965.9	577.1	110.3	86.4	80.0	72.6	61.6	49.6	44.1	43.2
37.5°	1088.1	1044.9	487.1	89.1	76.3	67.1	56.1	45.0	36.8	32.2	31.2
40°	1198.4	1132.2	386.9	79.0	68.0	56.1	42.3	32.2	26.7	23.0	23.0
42.5°	1317.8	1214.0	284.9	72.6	59.7	45.9	31.2	23.0	19.3	17.5	16.5
45°	1441.0	1286.6	192.1	67.1	52.4	34.9	22.1	15.6	12.9	12.9	11.9
47.5°	1568.7	1335.3	124.1	60.7	44.1	25.7	14.7	11.0	9.2	9.2	9.2
50°	1695.6	1361.0	88.2	55.1	35.8	17.5	11.0	8.3	7.4	7.4	7.4
52.5°	1787.5	1344.5	70.8	47.8	27.6	12.9	8.3	6.4	5.5	5.5	5.5
55°	1867.4	1316.0	61.6	41.4	20.2	9.2	6.4	5.5	4.6	4.6	4.6
57.5°	1949.2	1279.2	55.1	34.9	14.7	6.4	4.6	3.7	3.7	3.7	3.7
60°	2023.6	1216.8	47.8	27.6	10.1	4.6	3.7	2.8	2.8	2.8	2.8
62.5°	2096.2	1163.5	41.4	21.1	7.4	3.7	1.8	1.8	0.9	0.9	0.9
65°	2137.6	1091.8	33.1	13.8	4.6	2.8	0.9	0.9	0.0	0.0	0.0
67.5°	2124.7	1006.3	23.0	8.3	2.8	1.8	0.9	0.0	0.0	0.0	0.0
70°	2035.6	891.4	13.8	4.6	2.8	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1704.7	659.8	8.3	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1138.6	303.3	4.6	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	521.1	91.0	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.8	23.9	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)