

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: P841077

Luminaire Tested: **ARCH4-130-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13064 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132
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

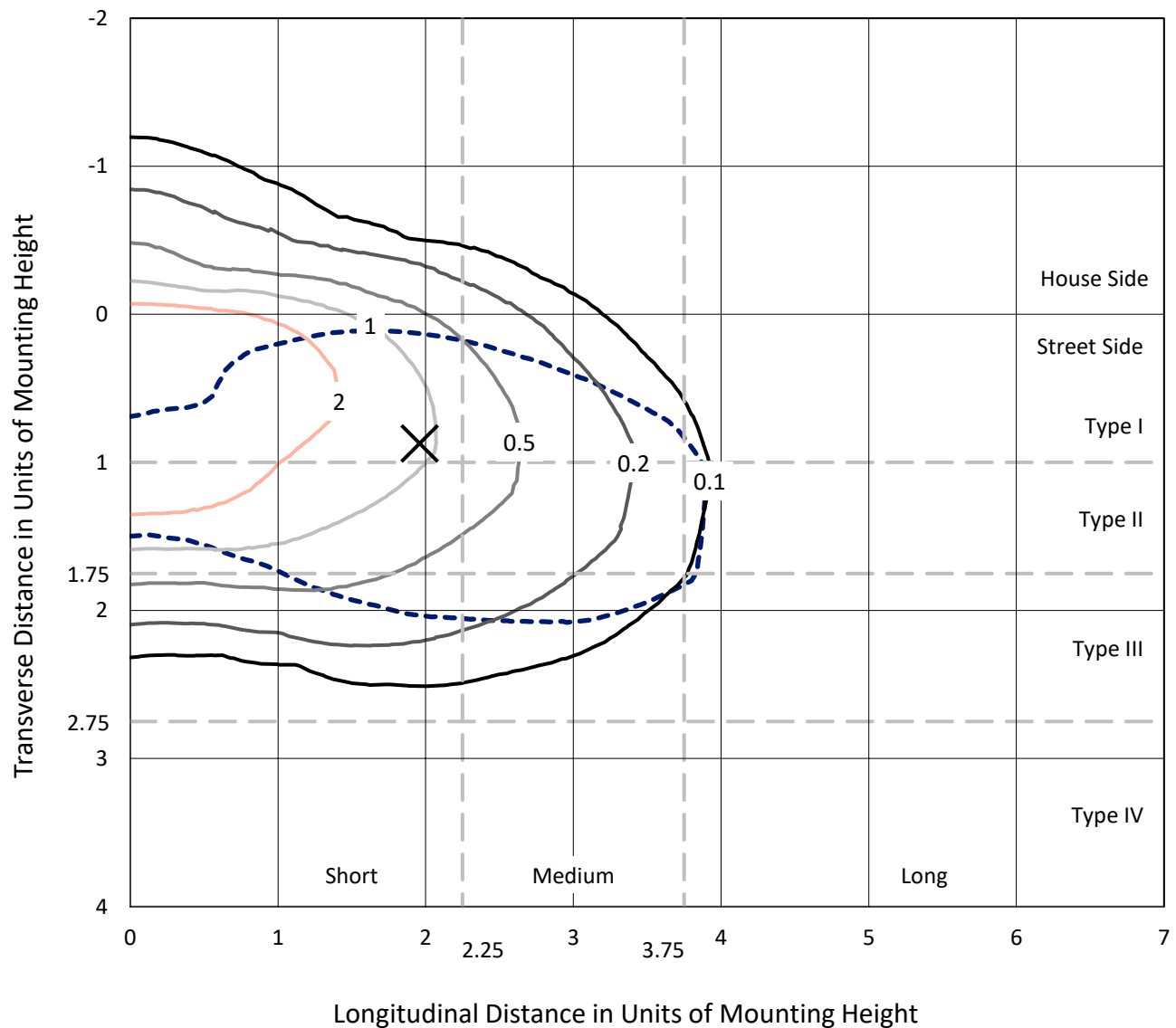


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Iso-Footcandle Lines of Horizontal Illumination

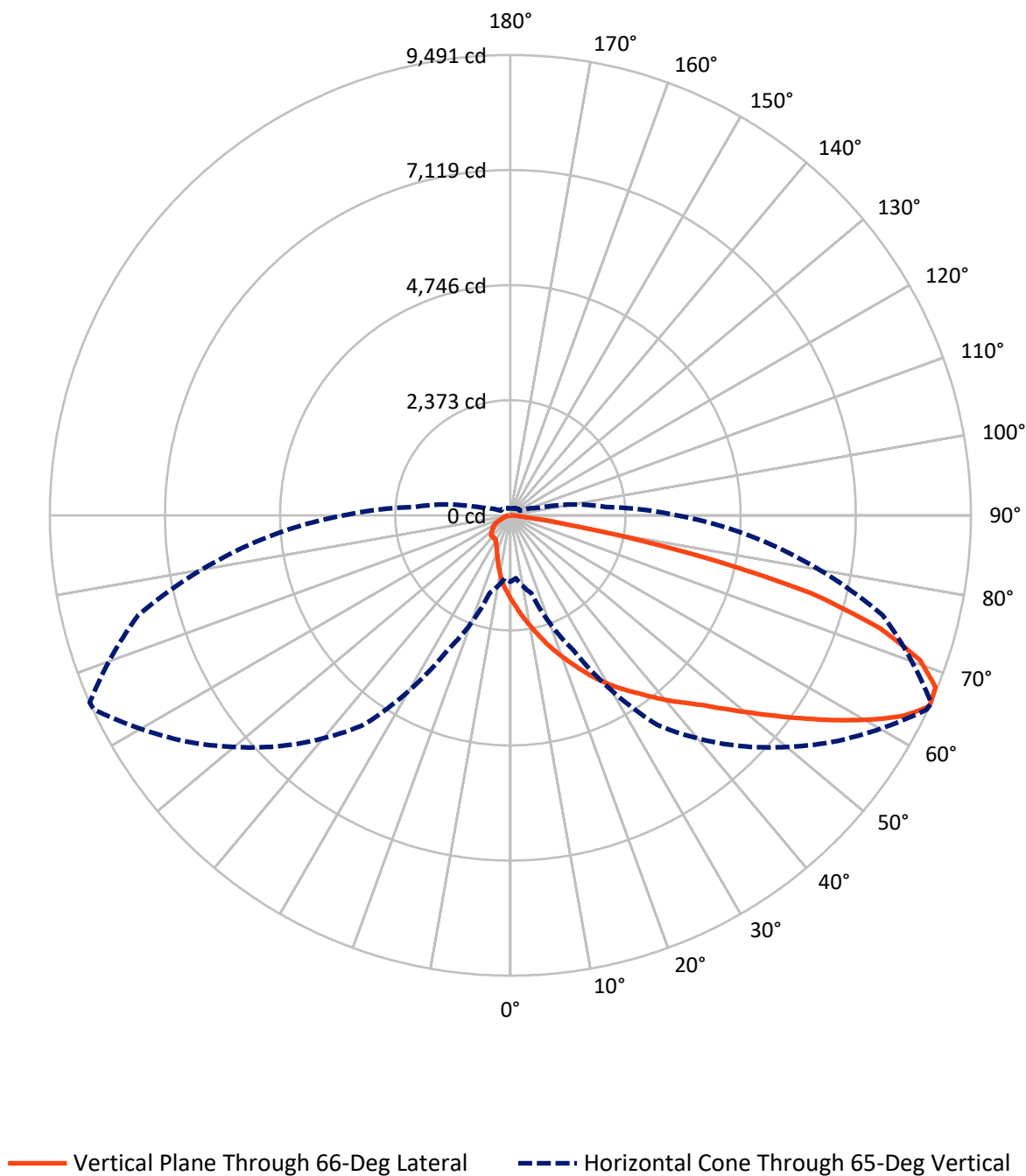
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1381.8	0.0	1381.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11682.2	0.0	11682.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	13064.0	0.0	13064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.3
10°-20°	556.2	4.3
20°-30°	1006.3	7.7
30°-40°	1573.6	12.0
40°-50°	2387.2	18.3
50°-60°	3033.0	23.2
60°-70°	2834.0	21.7
70°-80°	1408.5	10.8
80°-90°	94.6	0.7
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°	13064.0	100.0
0°-180°	13064.0	100.0

Coefficient of Utilization



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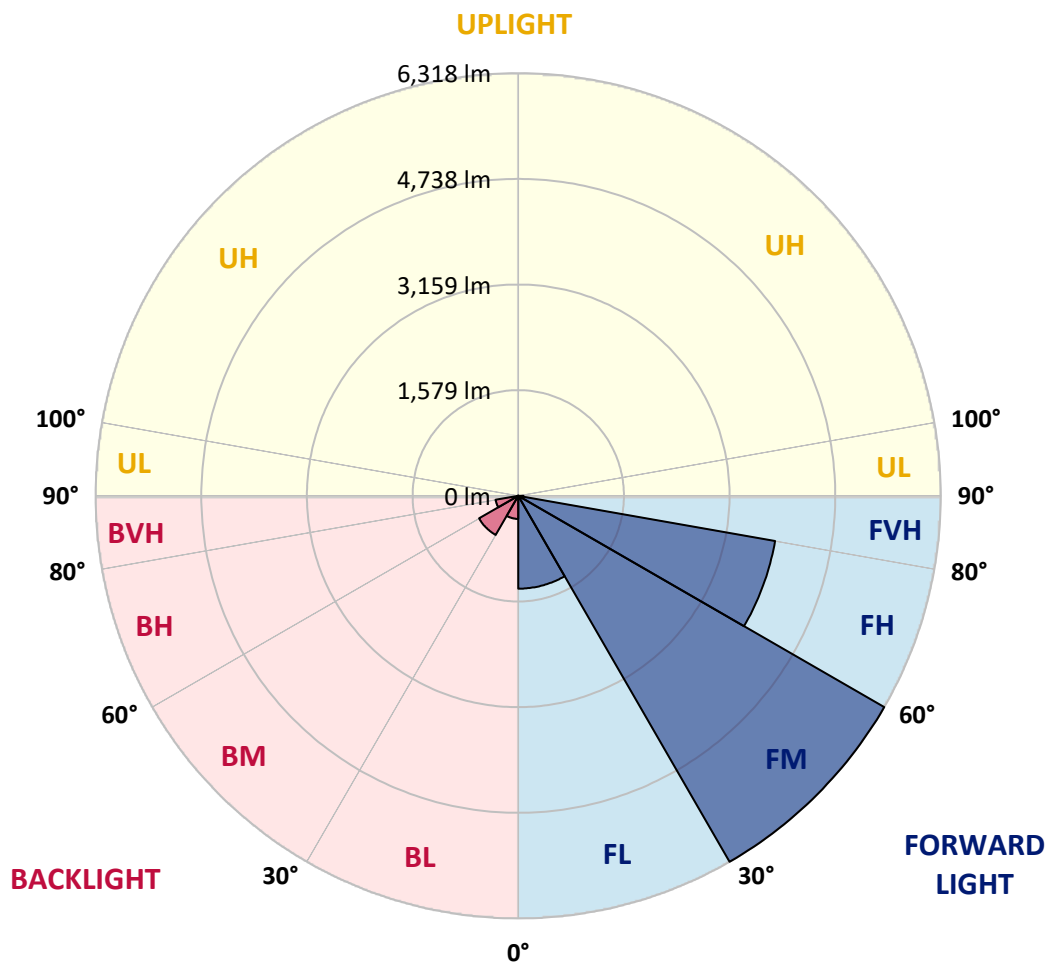
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1388.1	10.6			
FM	(30°-60°)	6317.9	48.4			
FH	(60°-80°)	3898.4	29.8			G2/5000
FVH	(80°-90°)	77.9	0.6			G1/100
BL	(0°-30°)	345.1	2.6	B1/500		
BM	(30°-60°)	675.8	5.2	B1/1000		
BH	(60°-80°)	344.1	2.6	B1/500		G1/500
BVH	(80°-90°)	16.8	0.1			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°	55°	65°	66°	75°	85°
0°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9
2.5°	2019.4	2035.8	2044.1	2046.8	1983.8	1956.4	1929.0	1865.9	1852.2	1816.6	1770.0
5°	2375.6	2397.5	2392.0	2381.1	2304.4	2216.7	2145.4	2027.6	2008.4	1923.5	1819.4
7.5°	2726.3	2745.5	2740.0	2698.9	2614.0	2490.7	2372.9	2200.2	2172.8	2035.8	1868.7
10°	3019.5	3035.9	3033.2	2992.1	2890.7	2740.0	2597.5	2367.4	2334.5	2140.0	1909.8
12.5°	3260.6	3282.5	3279.8	3252.4	3162.0	2997.6	2835.9	2559.2	2518.1	2266.0	1967.3
15°	3449.7	3477.1	3477.1	3466.1	3403.1	3266.1	3082.5	2770.2	2720.8	2411.2	2038.6
17.5°	3564.8	3586.7	3605.9	3625.0	3581.2	3477.1	3309.9	2981.1	2929.1	2553.7	2112.6
20°	3625.0	3647.0	3660.7	3701.8	3710.0	3657.9	3526.4	3189.4	3134.6	2715.4	2197.5
22.5°	3723.7	3742.9	3745.6	3781.2	3797.7	3811.4	3729.2	3394.9	3351.0	2893.5	2293.4
25°	3888.1	3910.0	3901.8	3918.2	3921.0	3937.4	3929.2	3630.5	3586.7	3096.2	2408.5
27.5°	4099.1	4126.5	4121.0	4104.5	4079.9	4066.2	4101.8	3868.9	3827.8	3299.0	2526.3
30°	4326.5	4359.4	4351.1	4318.3	4252.5	4195.0	4244.3	4093.6	4055.2	3507.2	2657.8
32.5°	4556.6	4595.0	4592.3	4537.5	4425.1	4326.5	4400.5	4304.6	4277.2	3731.9	2800.3
35°	4707.3	4756.7	4751.2	4718.3	4573.1	4488.1	4578.6	4521.0	4501.8	4005.9	3005.8
37.5°	4951.2	5003.3	4956.7	4874.5	4707.3	4663.5	4773.1	4764.9	4751.2	4296.3	3222.3
40°	5543.0	5619.8	5496.5	5159.4	4885.4	4847.1	5003.3	5036.1	5022.4	4584.0	3416.8
42.5°	6162.3	6277.4	6085.6	5619.8	5208.8	5069.0	5255.3	5301.9	5285.5	4830.6	3592.2
45°	6537.7	6587.0	6395.2	6033.5	5781.4	5337.5	5523.9	5600.6	5586.9	5126.6	3816.8
47.5°	6844.6	6825.4	6606.2	6362.3	6408.9	5715.7	5828.0	5978.7	5967.8	5452.6	4063.4
50°	6910.3	6866.5	6778.8	6625.4	6748.7	6099.3	6148.6	6408.9	6397.9	5814.3	4312.8
52.5°	6447.3	6389.7	6628.1	6756.9	6715.8	6378.8	6502.1	6880.2	6874.7	6206.1	4551.2
55°	5291.0	5244.4	5885.5	6551.4	6680.2	6576.0	6893.9	7370.6	7400.8	6622.6	4767.6
57.5°	4162.1	4112.8	4743.0	6036.3	6548.6	6756.9	7351.5	7932.3	7970.7	7074.7	4973.1
60°	3318.2	3244.2	3726.4	5225.2	6302.0	6896.6	7792.6	8548.8	8554.3	7488.5	5099.2
62.5°	2255.0	2172.8	2707.1	4197.7	5888.3	6918.5	8132.4	9080.4	9102.3	7798.1	5121.1
65°	1370.0	1301.5	1663.2	3066.1	5277.3	6732.2	8137.8	9472.2	9491.4	7940.6	4989.6
67.5°	794.6	767.2	950.8	1909.8	4263.5	6230.8	7795.3	9411.9	9447.6	7880.3	4690.9
70°	463.1	460.3	528.8	945.3	3008.5	5236.2	7030.9	8905.0	8957.1	7565.2	4233.3
72.5°	339.8	345.2	372.6	506.9	1742.6	3770.3	5954.1	7885.8	7965.2	6948.7	3581.2
75°	268.5	271.3	295.9	345.2	915.2	2131.7	4460.7	6329.4	6392.5	5849.9	2797.6
77.5°	200.0	205.5	224.7	243.9	424.7	978.2	2509.9	3899.0	3794.9	3211.3	1350.8
80°	145.2	158.9	167.1	175.4	224.7	378.1	753.5	1359.0	1348.1	1402.9	638.4
82.5°	93.2	104.1	112.3	117.8	134.3	180.8	224.7	304.1	328.8	545.3	254.8
85°	41.1	46.6	52.1	63.0	57.5	63.0	93.2	60.3	52.1	82.2	46.6
87.5°	0.0	0.0	8.2	13.7	11.0	5.5	16.4	11.0	8.2	8.2	8.2
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°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9
2.5°	1745.4	1715.2	1652.2	1591.9	1556.3	1509.7	1468.6	1430.3	1427.5	1416.6	1397.4
5°	1767.3	1709.8	1591.9	1479.6	1394.7	1304.2	1227.5	1167.2	1145.3	1128.9	1107.0
7.5°	1789.2	1698.8	1523.4	1359.0	1224.8	1098.7	1008.3	926.1	901.5	879.5	865.8
10°	1797.4	1679.6	1444.0	1224.8	1049.4	915.2	819.3	759.0	737.1	726.1	717.9
12.5°	1822.1	1668.7	1370.0	1098.7	896.0	772.7	704.2	668.6	660.3	652.1	643.9
15°	1855.0	1668.7	1296.0	975.4	775.4	676.8	635.7	611.0	605.5	602.8	597.3
17.5°	1890.6	1668.7	1224.8	871.3	687.7	613.8	583.6	569.9	567.2	564.4	561.7
20°	1939.9	1671.4	1148.1	780.9	624.7	567.2	542.5	526.1	523.3	520.6	520.6
22.5°	1989.3	1676.9	1074.1	712.4	583.6	531.6	501.4	485.0	479.5	479.5	479.5
25°	2052.3	1693.3	1005.6	654.9	548.0	498.7	460.3	446.6	443.9	443.9	441.1
27.5°	2126.3	1712.5	945.3	611.0	512.4	460.3	422.0	408.3	402.8	402.8	400.0
30°	2205.7	1731.7	896.0	578.1	476.8	422.0	386.3	369.9	364.4	367.2	364.4
32.5°	2293.4	1759.1	857.6	556.2	443.9	389.1	356.2	337.0	334.3	334.3	331.5
35°	2441.4	1835.8	852.1	545.3	416.5	364.4	331.5	312.4	309.6	309.6	306.9
37.5°	2600.3	1923.5	876.8	539.8	394.6	342.5	312.4	293.2	290.4	290.4	290.4
40°	2734.5	1989.3	904.2	539.8	380.9	323.3	295.9	279.5	279.5	279.5	279.5
42.5°	2825.0	1994.7	898.7	539.8	369.9	309.6	285.0	268.5	268.5	271.3	268.5
45°	2959.2	2022.1	876.8	531.6	361.7	298.7	274.0	260.3	257.6	260.3	260.3
47.5°	3118.1	2071.5	854.9	498.7	358.9	287.7	265.8	249.3	246.6	249.3	246.6
50°	3268.8	2115.3	843.9	454.8	353.5	276.7	254.8	238.4	235.6	238.4	235.6
52.5°	3394.9	2134.5	824.7	424.7	339.8	265.8	243.9	227.4	221.9	224.7	224.7
55°	3496.3	2129.0	797.3	400.0	315.1	254.8	230.2	216.5	208.2	208.2	205.5
57.5°	3589.4	2131.7	772.7	375.4	287.7	238.4	219.2	202.8	191.8	189.1	186.3
60°	3625.0	2118.0	728.8	342.5	260.3	224.7	205.5	186.3	175.4	172.6	169.9
62.5°	3575.7	2068.7	671.3	285.0	235.6	208.2	191.8	172.6	161.7	158.9	156.2
65°	3436.0	1975.5	583.6	224.7	213.7	189.1	175.4	161.7	148.0	142.5	139.7
67.5°	3197.6	1841.3	474.0	180.8	189.1	172.6	164.4	148.0	131.5	126.0	123.3
70°	2857.8	1663.2	356.2	153.4	167.1	153.4	148.0	131.5	117.8	112.3	109.6
72.5°	2381.1	1375.5	249.3	131.5	145.2	134.3	128.8	117.8	104.1	95.9	95.9
75°	1800.2	986.4	164.4	112.3	120.6	115.1	106.9	98.6	90.4	84.9	82.2
77.5°	775.4	383.6	101.4	84.9	98.6	95.9	84.9	79.5	76.7	71.2	71.2
80°	334.3	156.2	63.0	63.0	71.2	68.5	65.8	60.3	60.3	57.5	54.8
82.5°	123.3	63.0	38.4	46.6	52.1	46.6	46.6	46.6	46.6	43.8	43.8
85°	30.1	19.2	19.2	27.4	30.1	27.4	30.1	27.4	27.4	27.4	24.7
87.5°	8.2	8.2	11.0	11.0	11.0	11.0	11.0	8.2	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)