

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: P836022

Luminaire Tested: **ARCH3-130-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11678 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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



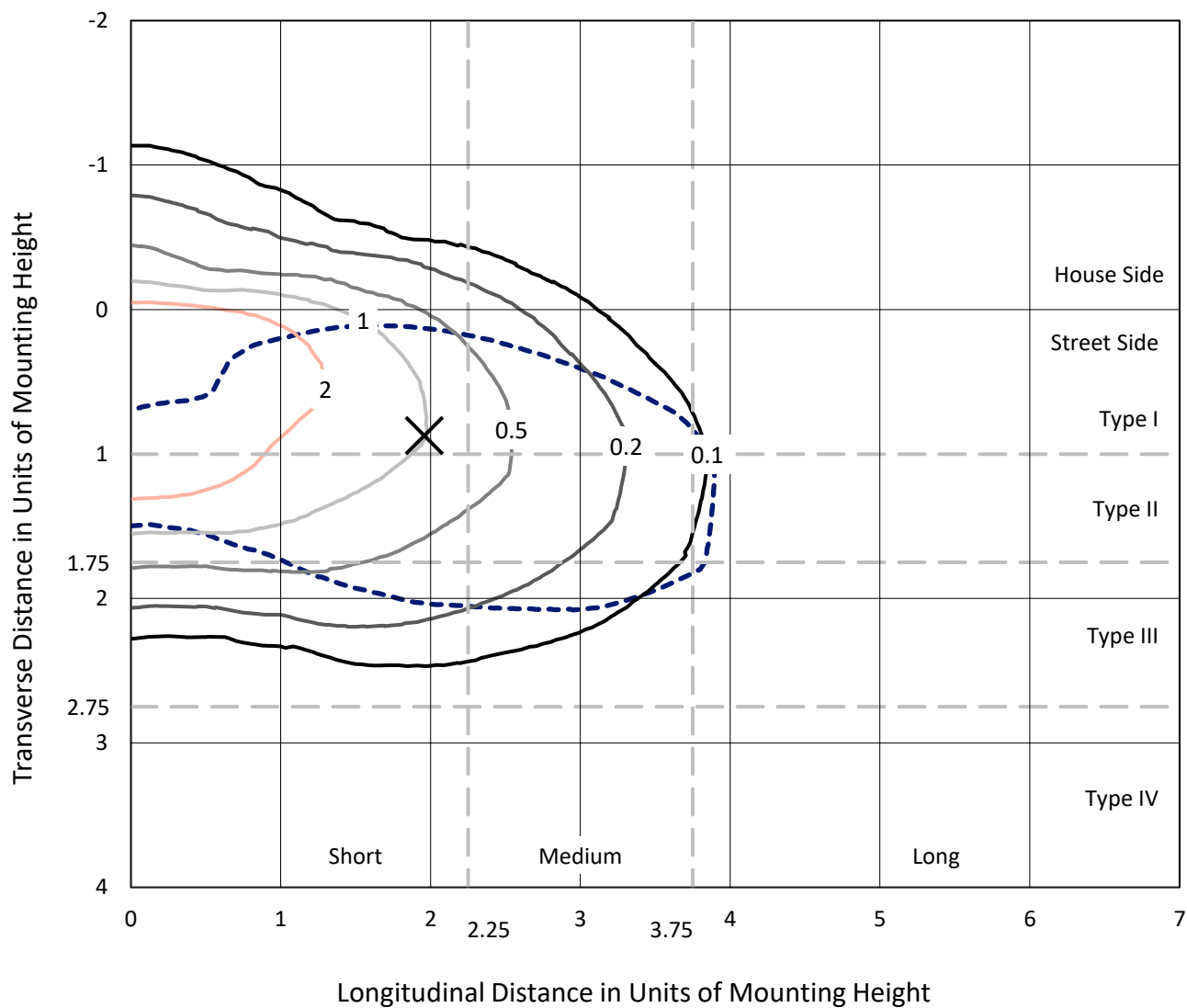
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Iso-Footcandle Lines of Horizontal Illumination

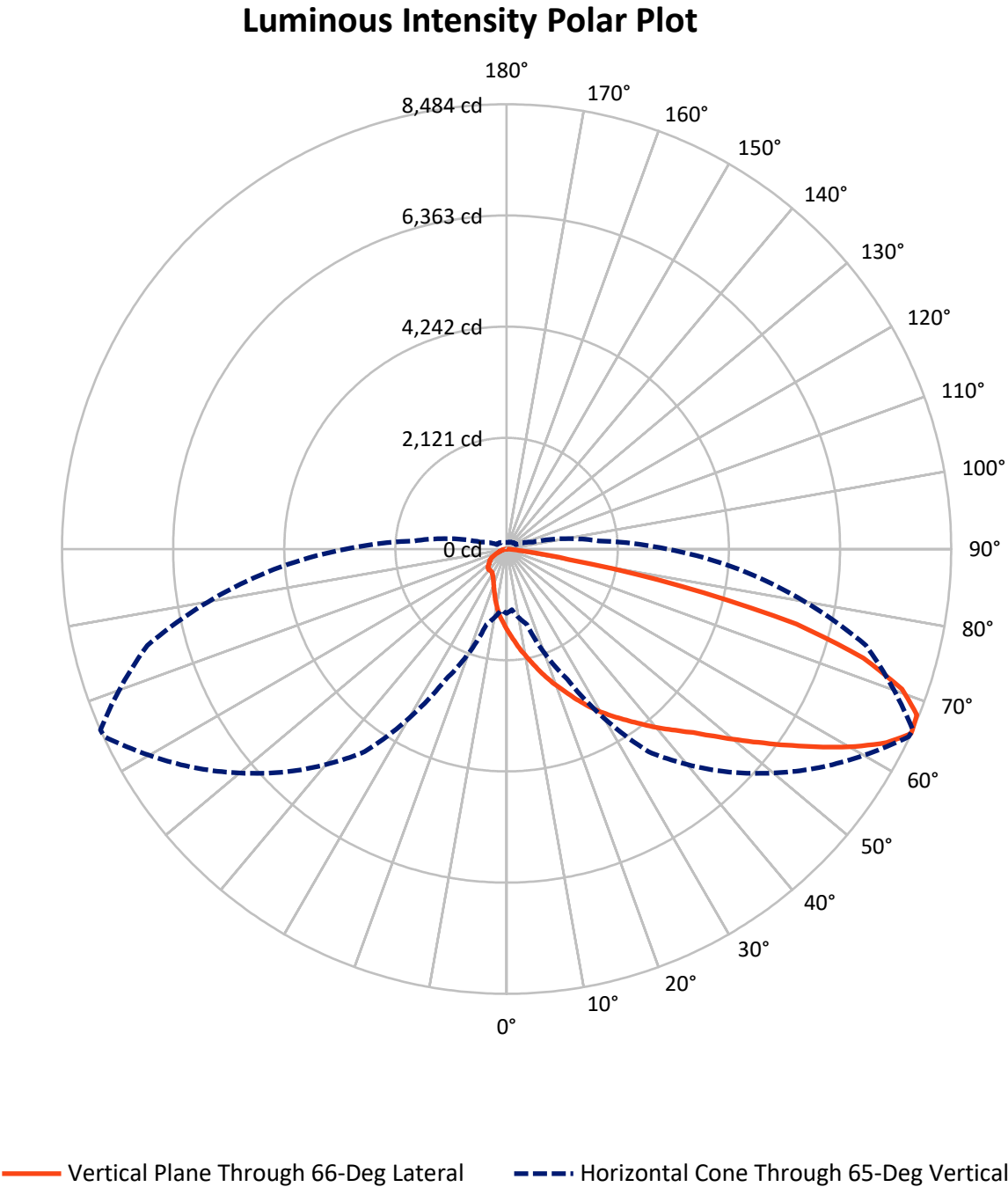
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.2	0.0	1235.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10442.8	0.0	10442.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	11678.0	0.0	11678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.3
10°-20°	497.2	4.3
20°-30°	899.6	7.7
30°-40°	1406.7	12.0
40°-50°	2133.9	18.3
50°-60°	2711.2	23.2
60°-70°	2533.3	21.7
70°-80°	1259.0	10.8
80°-90°	84.6	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°	11678.0	100.0
0°-180°	11678.0	100.0

Coefficient of Utilization



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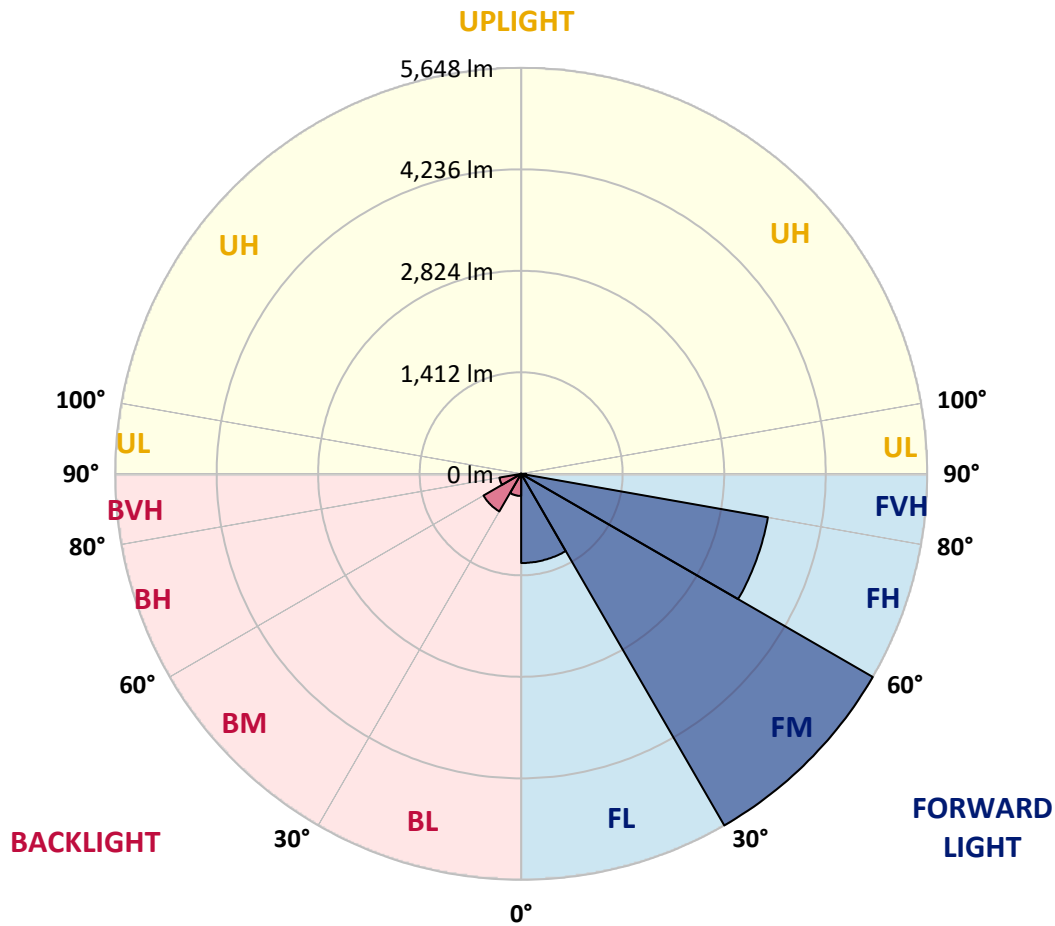
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1240.8	10.6			
FM	(30°-60°)	5647.6	48.4			
FH	(60°-80°)	3484.8	29.8			G2/5000
FVH	(80°-90°)	69.6	0.6			G1/100
BL	(0°-30°)	308.5	2.6	B1/500		
BM	(30°-60°)	604.1	5.2	B1/1000		
BH	(60°-80°)	307.6	2.6	B1/500		G1/500
BVH	(80°-90°)	15.0	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°	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5
2.5°	1805.1	1819.8	1827.2	1829.6	1773.3	1748.8	1724.3	1668.0	1655.7	1623.9	1582.3
5°	2123.6	2143.2	2138.3	2128.5	2059.9	1981.5	1917.8	1812.5	1795.3	1719.4	1626.3
7.5°	2437.1	2454.2	2449.3	2412.6	2336.6	2226.4	2121.1	1966.8	1942.3	1819.8	1670.4
10°	2699.1	2713.8	2711.4	2674.7	2584.0	2449.3	2322.0	2116.2	2086.8	1912.9	1707.2
12.5°	2914.7	2934.3	2931.8	2907.3	2826.5	2679.6	2535.0	2287.7	2250.9	2025.6	1758.6
15°	3083.7	3108.2	3108.2	3098.4	3042.1	2919.6	2755.5	2476.3	2432.2	2155.4	1822.3
17.5°	3186.6	3206.2	3223.3	3240.4	3201.3	3108.2	2958.8	2664.9	2618.3	2282.8	1888.4
20°	3240.4	3260.0	3272.3	3309.0	3316.4	3269.8	3152.3	2851.0	2802.0	2427.3	1964.4
22.5°	3328.6	3345.8	3348.2	3380.1	3394.8	3407.0	3333.5	3034.7	2995.5	2586.5	2050.1
25°	3475.6	3495.2	3487.8	3502.5	3505.0	3519.7	3512.3	3245.3	3206.2	2767.7	2152.9
27.5°	3664.2	3688.7	3683.8	3669.1	3647.0	3634.8	3666.6	3458.4	3421.7	2949.0	2258.3
30°	3867.5	3896.9	3889.5	3860.1	3801.3	3749.9	3794.0	3659.3	3625.0	3135.1	2375.8
32.5°	4073.2	4107.5	4105.1	4056.1	3955.6	3867.5	3933.6	3847.9	3823.4	3336.0	2503.2
35°	4207.9	4252.0	4247.1	4217.7	4087.9	4012.0	4092.8	4041.4	4024.2	3580.9	2686.9
37.5°	4425.9	4472.5	4430.8	4357.3	4207.9	4168.7	4266.7	4259.4	4247.1	3840.5	2880.4
40°	4955.0	5023.5	4913.3	4612.1	4367.1	4332.8	4472.5	4501.8	4489.6	4097.7	3054.3
42.5°	5508.5	5611.4	5439.9	5023.5	4656.2	4531.2	4697.8	4739.4	4724.7	4318.1	3211.1
45°	5844.1	5888.2	5716.7	5393.4	5168.1	4771.3	4937.8	5006.4	4994.2	4582.7	3411.9
47.5°	6118.4	6101.2	5905.3	5687.3	5729.0	5109.3	5209.7	5344.4	5334.6	4874.1	3632.3
50°	6177.2	6138.0	6059.6	5922.4	6032.7	5452.2	5496.3	5729.0	5719.2	5197.5	3855.2
52.5°	5763.2	5711.8	5924.9	6040.0	6003.3	5702.0	5812.2	6150.2	6145.3	5547.7	4068.3
55°	4729.6	4688.0	5261.1	5856.3	5971.4	5878.4	6162.5	6588.7	6615.6	5920.0	4261.8
57.5°	3720.5	3676.4	4239.8	5395.8	5853.9	6040.0	6571.5	7090.8	7125.1	6324.1	4445.5
60°	2966.1	2900.0	3331.1	4670.8	5633.4	6164.9	6965.9	7641.9	7646.8	6694.0	4558.2
62.5°	2015.8	1942.3	2419.9	3752.4	5263.6	6184.5	7269.6	8117.0	8136.6	6970.8	4577.8
65°	1224.7	1163.4	1486.7	2740.8	4717.4	6018.0	7274.5	8467.3	8484.4	7098.1	4460.2
67.5°	710.3	685.8	849.9	1707.2	3811.1	5569.7	6968.3	8413.4	8445.2	7044.2	4193.2
70°	413.9	411.5	472.7	845.0	2689.4	4680.6	6284.9	7960.3	8006.8	6762.6	3784.2
72.5°	303.7	308.6	333.1	453.1	1557.8	3370.3	5322.4	7049.1	7120.2	6211.5	3201.3
75°	240.0	242.5	264.5	308.6	818.1	1905.6	3987.5	5657.9	5714.3	5229.3	2500.8
77.5°	178.8	183.7	200.8	218.0	379.6	874.4	2243.6	3485.4	3392.3	2870.6	1207.5
80°	129.8	142.1	149.4	156.8	200.8	338.0	673.6	1214.9	1205.1	1254.1	570.7
82.5°	83.3	93.1	100.4	105.3	120.0	161.7	200.8	271.9	293.9	487.4	227.8
85°	36.7	41.6	46.5	56.3	51.4	56.3	83.3	53.9	46.5	73.5	41.6
87.5°	0.0	0.0	7.3	12.2	9.8	4.9	14.7	9.8	7.3	7.3	7.3
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°	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5
2.5°	1560.2	1533.3	1476.9	1423.1	1391.2	1349.6	1312.8	1278.5	1276.1	1266.3	1249.2
5°	1579.8	1528.4	1423.1	1322.6	1246.7	1165.9	1097.3	1043.4	1023.8	1009.1	989.5
7.5°	1599.4	1518.6	1361.8	1214.9	1094.8	982.2	901.3	827.9	805.8	786.2	774.0
10°	1606.8	1501.4	1290.8	1094.8	938.1	818.1	732.3	678.5	658.9	649.1	641.7
12.5°	1628.8	1491.6	1224.7	982.2	800.9	690.7	629.5	597.6	590.3	582.9	575.6
15°	1658.2	1491.6	1158.5	872.0	693.2	605.0	568.2	546.2	541.3	538.8	534.0
17.5°	1690.0	1491.6	1094.8	778.9	614.8	548.6	521.7	509.5	507.0	504.6	502.1
20°	1734.1	1494.1	1026.3	698.1	558.4	507.0	485.0	470.3	467.8	465.4	465.4
22.5°	1778.2	1499.0	960.1	636.8	521.7	475.2	448.2	433.5	428.6	428.6	428.6
25°	1834.5	1513.7	898.9	585.4	489.9	445.8	411.5	399.2	396.8	396.8	394.3
27.5°	1900.7	1530.8	845.0	546.2	458.0	411.5	377.2	364.9	360.0	360.0	357.6
30°	1971.7	1548.0	800.9	516.8	426.2	377.2	345.4	330.7	325.8	328.2	325.8
32.5°	2050.1	1572.5	766.6	497.2	396.8	347.8	318.4	301.3	298.8	298.8	296.4
35°	2182.3	1641.0	761.7	487.4	372.3	325.8	296.4	279.2	276.8	276.8	274.3
37.5°	2324.4	1719.4	783.8	482.5	352.7	306.2	279.2	262.1	259.6	259.6	259.6
40°	2444.4	1778.2	808.3	482.5	340.5	289.0	264.5	249.8	249.8	249.8	249.8
42.5°	2525.2	1783.1	803.4	482.5	330.7	276.8	254.7	240.0	240.0	242.5	240.0
45°	2645.3	1807.6	783.8	475.2	323.3	267.0	244.9	232.7	230.2	232.7	232.7
47.5°	2787.3	1851.7	764.2	445.8	320.9	257.2	237.6	222.9	220.4	222.9	220.4
50°	2922.0	1890.9	754.4	406.6	316.0	247.4	227.8	213.1	210.6	213.1	210.6
52.5°	3034.7	1908.0	737.2	379.6	303.7	237.6	218.0	203.3	198.4	200.8	200.8
55°	3125.3	1903.1	712.8	357.6	281.7	227.8	205.7	193.5	186.1	186.1	183.7
57.5°	3208.6	1905.6	690.7	335.6	257.2	213.1	195.9	181.2	171.5	169.0	166.6
60°	3240.4	1893.3	651.5	306.2	232.7	200.8	183.7	166.6	156.8	154.3	151.9
62.5°	3196.4	1849.2	600.1	254.7	210.6	186.1	171.5	154.3	144.5	142.1	139.6
65°	3071.4	1766.0	521.7	200.8	191.0	169.0	156.8	144.5	132.3	127.4	124.9
67.5°	2858.4	1645.9	423.7	161.7	169.0	154.3	147.0	132.3	117.6	112.7	110.2
70°	2554.6	1486.7	318.4	137.2	149.4	137.2	132.3	117.6	105.3	100.4	98.0
72.5°	2128.5	1229.6	222.9	117.6	129.8	120.0	115.1	105.3	93.1	85.7	85.7
75°	1609.2	881.8	147.0	100.4	107.8	102.9	95.5	88.2	80.8	75.9	73.5
77.5°	693.2	342.9	90.6	75.9	88.2	85.7	75.9	71.0	68.6	63.7	63.7
80°	298.8	139.6	56.3	56.3	63.7	61.2	58.8	53.9	53.9	51.4	49.0
82.5°	110.2	56.3	34.3	41.6	46.5	41.6	41.6	41.6	41.6	39.2	39.2
85°	26.9	17.1	17.1	24.5	26.9	24.5	26.9	24.5	24.5	24.5	22.0
87.5°	7.3	7.3	9.8	9.8	9.8	9.8	9.8	7.3	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)