

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: P1210372

Luminaire Tested: **ARCH3-100-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11556 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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

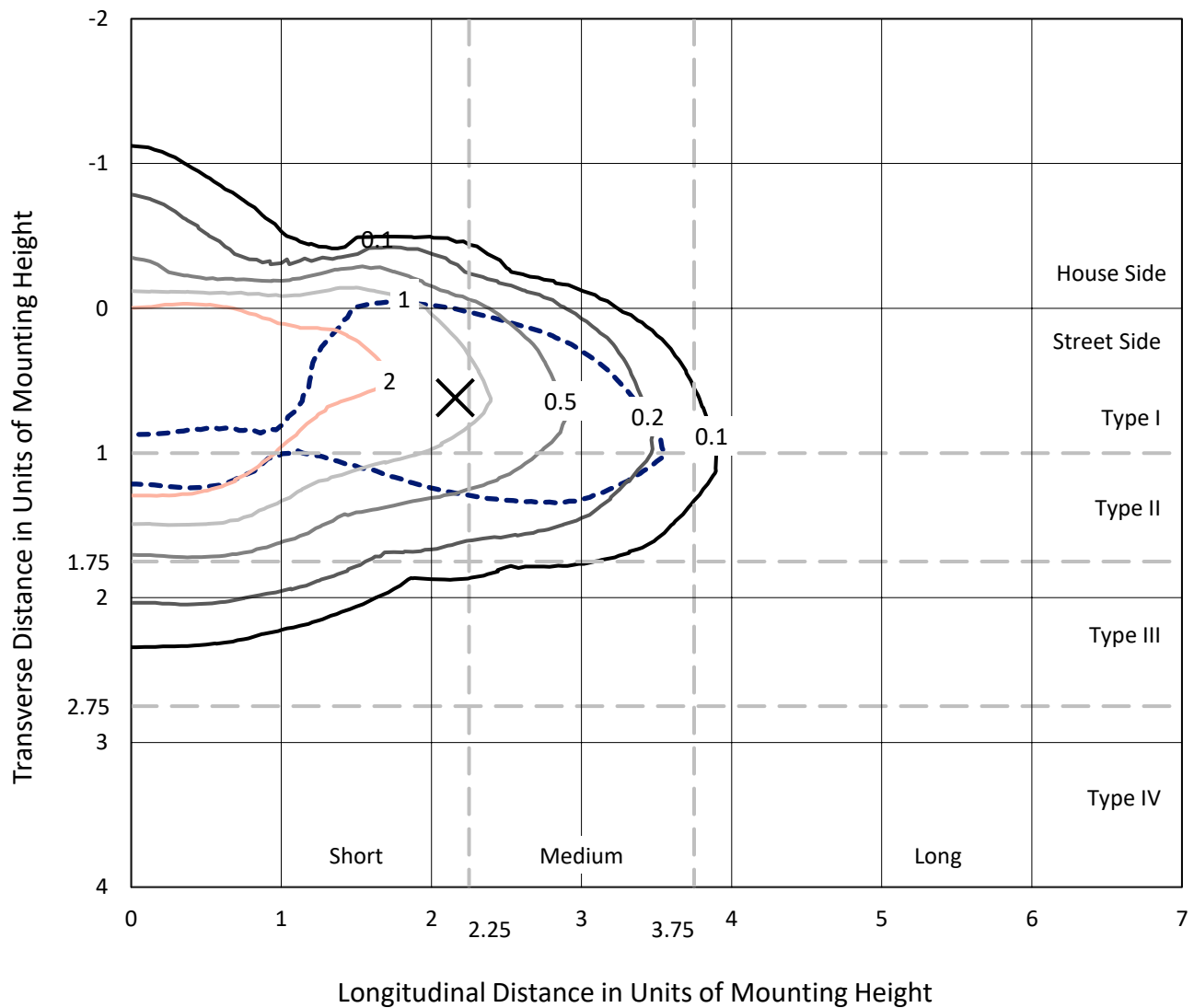


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Iso-Footcandle Lines of Horizontal Illumination

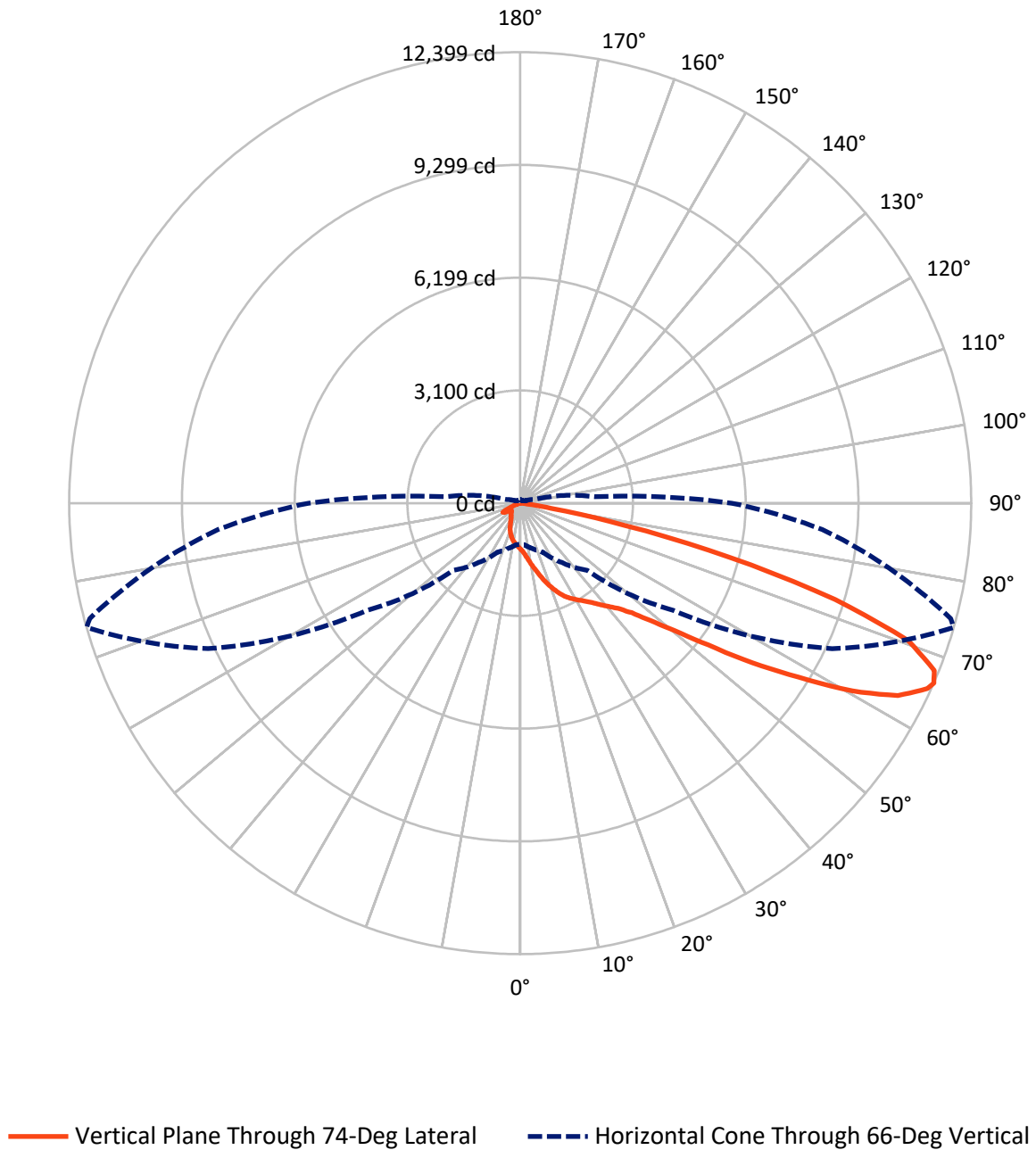
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.8	0.0	1132.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10423.1	0.0	10423.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	11556.0	0.0	11556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	1.1
10°-20°	394.7	3.4
20°-30°	753.3	6.5
30°-40°	1320.3	11.4
40°-50°	2264.0	19.6
50°-60°	2944.5	25.5
60°-70°	2665.5	23.1
70°-80°	1028.5	8.9
80°-90°	61.9	0.5
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°	11556.0	100.0
0°-180°	11556.0	100.0

Coefficient of Utilization



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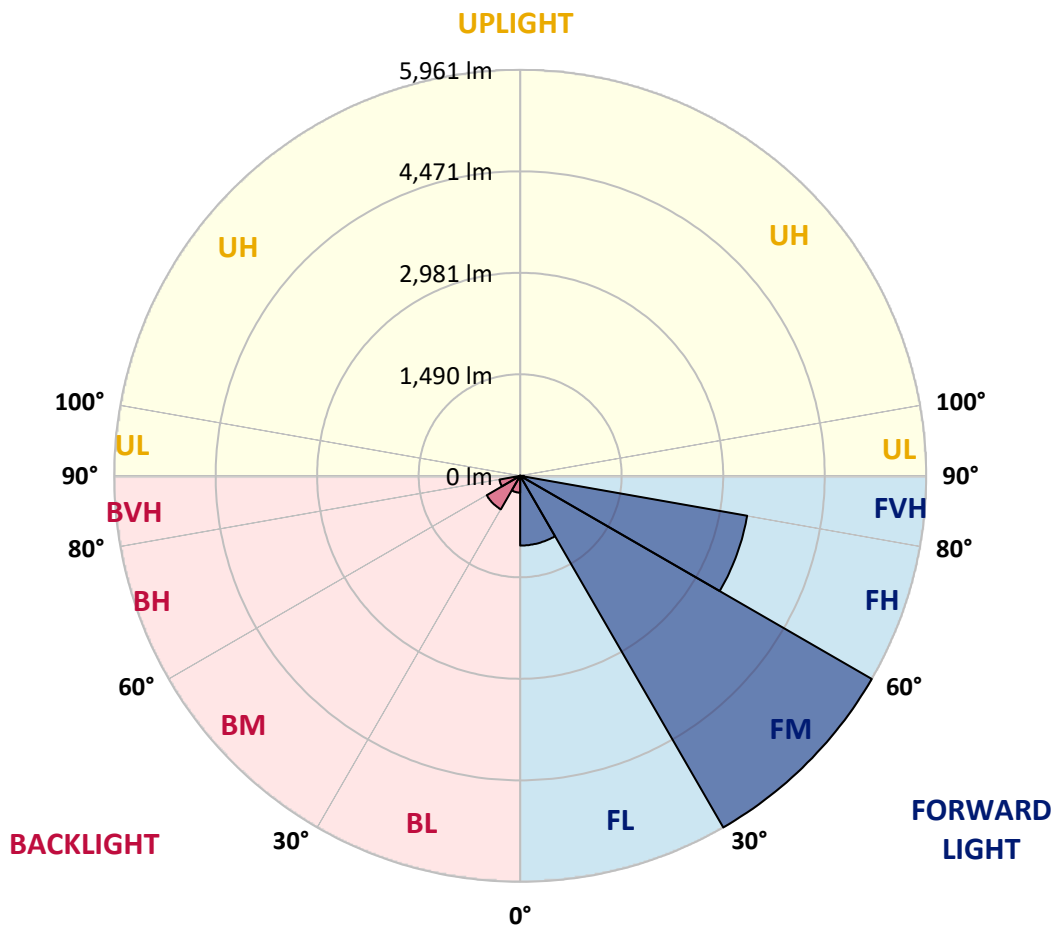
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.0	8.9			
FM	(30°-60°)	5961.2	51.6			
FH	(60°-80°)	3384.4	29.3			G2/5000
FVH	(80°-90°)	53.6	0.5			G1/100
BL	(0°-30°)	247.1	2.1	B1/500		
BM	(30°-60°)	567.7	4.9	B1/1000		
BH	(60°-80°)	309.7	2.7	B1/500		G1/500
BVH	(80°-90°)	8.3	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1514.6	1502.1	1479.3	1477.2	1458.5	1435.7	1396.3	1354.8	1325.8	1321.6	1286.3
5°	1813.3	1807.1	1784.3	1769.7	1734.5	1680.5	1589.2	1498.0	1421.2	1412.9	1334.1
7.5°	1892.2	1896.3	1900.5	1915.0	1902.5	1877.6	1809.2	1680.5	1560.2	1541.5	1404.6
10°	1904.6	1900.5	1900.5	1919.1	1954.4	1989.7	1981.4	1871.4	1715.8	1693.0	1502.1
12.5°	2039.5	2045.7	2031.2	2022.9	2016.6	2035.3	2097.6	2049.8	1879.7	1861.0	1620.4
15°	2213.7	2211.7	2190.9	2190.9	2172.2	2141.1	2180.5	2215.8	2076.8	2054.0	1755.2
17.5°	2340.3	2348.6	2346.5	2359.0	2352.7	2311.3	2290.5	2363.1	2280.1	2251.1	1908.8
20°	2442.0	2464.8	2473.1	2512.5	2531.2	2502.1	2448.2	2493.8	2475.2	2448.2	2064.4
22.5°	2549.8	2568.5	2583.0	2651.5	2703.4	2697.2	2628.7	2618.3	2664.0	2639.1	2217.9
25°	2657.7	2666.0	2709.6	2792.6	2875.6	2896.3	2825.8	2744.9	2834.1	2811.3	2354.8
27.5°	2776.0	2780.1	2832.0	2933.7	3049.9	3093.4	3037.4	2888.0	2964.8	2964.8	2479.3
30°	2991.8	3033.3	3054.0	3145.3	3247.0	3307.1	3240.7	3039.5	3081.0	3099.7	2610.0
32.5°	3456.5	3462.7	3456.5	3495.9	3516.7	3551.9	3475.2	3209.6	3199.2	3220.0	2738.6
35°	4166.1	4141.2	4074.8	4016.7	3896.3	3830.0	3730.4	3427.5	3344.5	3373.5	2865.2
37.5°	5027.1	4991.8	4840.4	4661.9	4404.7	4139.1	4014.6	3693.0	3529.1	3566.5	3002.1
40°	5848.7	5825.8	5645.3	5425.4	4985.6	4531.2	4267.7	3917.1	3734.5	3749.0	3141.1
42.5°	6525.0	6520.9	6369.4	6139.1	5574.8	4954.5	4566.5	4137.0	3950.3	3973.1	3286.4
45°	7037.5	6998.1	6886.0	6720.1	6145.4	5394.3	4927.5	4471.0	4296.8	4323.7	3504.2
47.5°	7037.5	7043.7	7116.3	7099.7	6543.7	5807.2	5321.7	4892.2	4809.2	4834.1	3863.2
50°	6464.9	6523.0	6846.6	7118.4	6751.2	6128.8	5747.0	5419.2	5504.3	5541.6	4489.7
52.5°	5332.1	5429.6	5991.8	6612.2	6597.6	6290.6	6186.9	6089.3	6471.1	6537.5	5415.1
55°	4052.0	4116.3	4848.6	5664.0	5929.6	6157.8	6570.7	6940.0	7751.2	7736.7	6354.9
57.5°	3027.0	3087.2	3717.9	4622.5	4973.1	5583.1	6767.8	7913.0	9020.9	9077.0	7236.7
60°	2226.2	2271.8	2809.2	3551.9	4058.2	4703.4	6688.9	8871.6	10483.6	10419.3	8014.7
62.5°	1647.3	1672.2	2060.2	2543.6	3215.8	3832.0	6193.1	9527.2	11651.7	11521.0	8448.3
65°	1273.9	1282.2	1483.4	1740.7	2338.2	2979.3	5454.5	9626.8	12296.9	12157.9	8440.0
66°	1134.9	1141.1	1288.4	1487.6	1989.7	2607.9	5130.8	9467.0	12398.6	12251.3	8336.3
67.5°	952.3	948.2	1035.3	1166.0	1493.8	2012.5	4556.1	9000.2	12278.3	12203.6	8004.3
70°	705.4	707.5	751.1	782.2	873.5	1114.1	3290.5	7807.2	11315.6	11311.4	7093.5
72.5°	522.8	529.1	562.3	568.5	545.7	603.7	1896.3	6209.7	9052.1	9054.1	5303.0
75°	392.1	402.5	412.9	417.0	396.3	381.8	856.9	4178.5	5954.5	5910.9	3002.1
77.5°	298.8	302.9	311.2	305.0	300.8	263.5	356.9	2037.4	2939.9	2678.5	973.0
80°	217.8	217.8	226.1	217.8	215.8	188.8	195.0	653.5	863.1	717.9	209.5
82.5°	136.9	134.9	141.1	139.0	134.9	120.3	114.1	182.6	199.2	178.4	101.7
85°	76.8	74.7	72.6	70.5	64.3	53.9	62.2	68.5	91.3	93.4	72.6
87.5°	27.0	27.0	24.9	22.8	18.7	18.7	22.8	22.8	33.2	33.2	37.3
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°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1269.7	1246.9	1213.7	1170.1	1139.0	1107.9	1074.7	1056.0	1029.1	1022.8	1031.1
5°	1292.6	1251.1	1168.1	1076.8	997.9	927.4	861.0	821.6	782.2	767.7	773.9
7.5°	1340.3	1269.7	1128.7	981.3	850.6	744.8	666.0	620.3	585.1	570.6	574.7
10°	1410.8	1302.9	1091.3	873.5	705.4	593.4	527.0	497.9	477.2	468.9	471.0
12.5°	1495.9	1350.7	1043.6	765.6	580.9	483.4	452.3	446.1	441.9	437.8	439.8
15°	1591.3	1392.1	987.6	659.8	483.4	429.5	419.1	417.0	414.9	414.9	414.9
17.5°	1690.9	1429.5	925.3	560.2	421.2	396.3	390.0	390.0	390.0	392.1	392.1
20°	1784.3	1458.5	852.7	471.0	385.9	365.2	361.0	361.0	363.1	365.2	365.2
22.5°	1875.6	1471.0	767.7	408.7	356.9	338.2	332.0	332.0	332.0	334.0	334.0
25°	1954.4	1471.0	682.6	369.3	332.0	313.3	305.0	302.9	305.0	305.0	305.0
27.5°	2020.8	1464.8	599.6	342.3	307.1	288.4	280.1	278.0	282.2	284.2	284.2
30°	2091.3	1456.5	533.2	317.4	286.3	267.6	259.3	259.3	265.6	273.9	273.9
32.5°	2159.8	1462.7	481.3	296.7	265.6	251.0	242.7	244.8	257.3	269.7	269.7
35°	2232.4	1475.1	450.2	282.2	251.0	236.5	230.3	236.5	249.0	261.4	261.4
37.5°	2305.0	1489.7	431.5	269.7	238.6	224.1	219.9	228.2	242.7	255.2	257.3
40°	2381.8	1502.1	410.8	257.3	230.3	213.7	211.6	219.9	238.6	251.0	253.1
42.5°	2477.2	1527.0	385.9	246.9	222.0	201.2	203.3	209.5	228.2	246.9	249.0
45°	2664.0	1605.8	361.0	236.5	211.6	195.0	190.9	195.0	215.8	236.5	240.7
47.5°	3014.6	1784.3	334.0	226.1	201.2	190.9	174.3	178.4	197.1	219.9	222.0
50°	3686.8	2163.9	319.5	215.8	193.0	176.4	157.7	157.7	172.2	193.0	193.0
52.5°	4734.5	2844.5	327.8	207.5	182.6	161.8	143.2	141.1	149.4	163.9	163.9
55°	5865.3	3591.4	358.9	199.2	170.1	153.5	132.8	122.4	128.6	136.9	136.9
57.5°	6761.6	3966.9	444.0	195.0	155.6	147.3	120.3	105.8	112.0	120.3	120.3
60°	7155.8	3747.0	539.4	199.2	145.2	136.9	107.9	93.4	103.7	112.0	114.1
62.5°	6836.2	3085.1	578.9	188.8	130.7	122.4	105.8	87.1	99.6	105.8	107.9
65°	6145.4	2344.4	452.3	163.9	120.3	105.8	95.4	83.0	93.4	99.6	99.6
66°	5817.5	2043.6	385.9	151.5	116.2	99.6	91.3	83.0	91.3	95.4	97.5
67.5°	5309.2	1612.1	286.3	132.8	107.9	91.3	85.1	78.8	87.1	91.3	91.3
70°	4151.5	960.6	172.2	103.7	93.4	80.9	76.8	72.6	78.8	80.9	80.9
72.5°	2599.6	456.4	110.0	76.8	78.8	76.8	64.3	68.5	70.5	72.6	72.6
75°	1259.4	180.5	74.7	56.0	64.3	72.6	51.9	60.2	62.2	66.4	64.3
77.5°	350.6	87.1	47.7	41.5	56.0	56.0	39.4	47.7	56.0	70.5	64.3
80°	101.7	56.0	31.1	31.1	39.4	39.4	27.0	33.2	37.3	41.5	43.6
82.5°	70.5	37.3	20.7	22.8	22.8	24.9	16.6	16.6	20.7	20.7	22.8
85°	56.0	16.6	12.4	14.5	10.4	12.4	8.3	8.3	10.4	8.3	8.3
87.5°	22.8	8.3	8.3	8.3	6.2	6.2	4.1	2.1	2.1	2.1	2.1
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)