

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: P1210812

Luminaire Tested: **ARCH3-80-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210812
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: ARCH3-80-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA 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: 9120 lumens
Efficiency: N/A
Efficacy: 111.4 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): 81.9
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

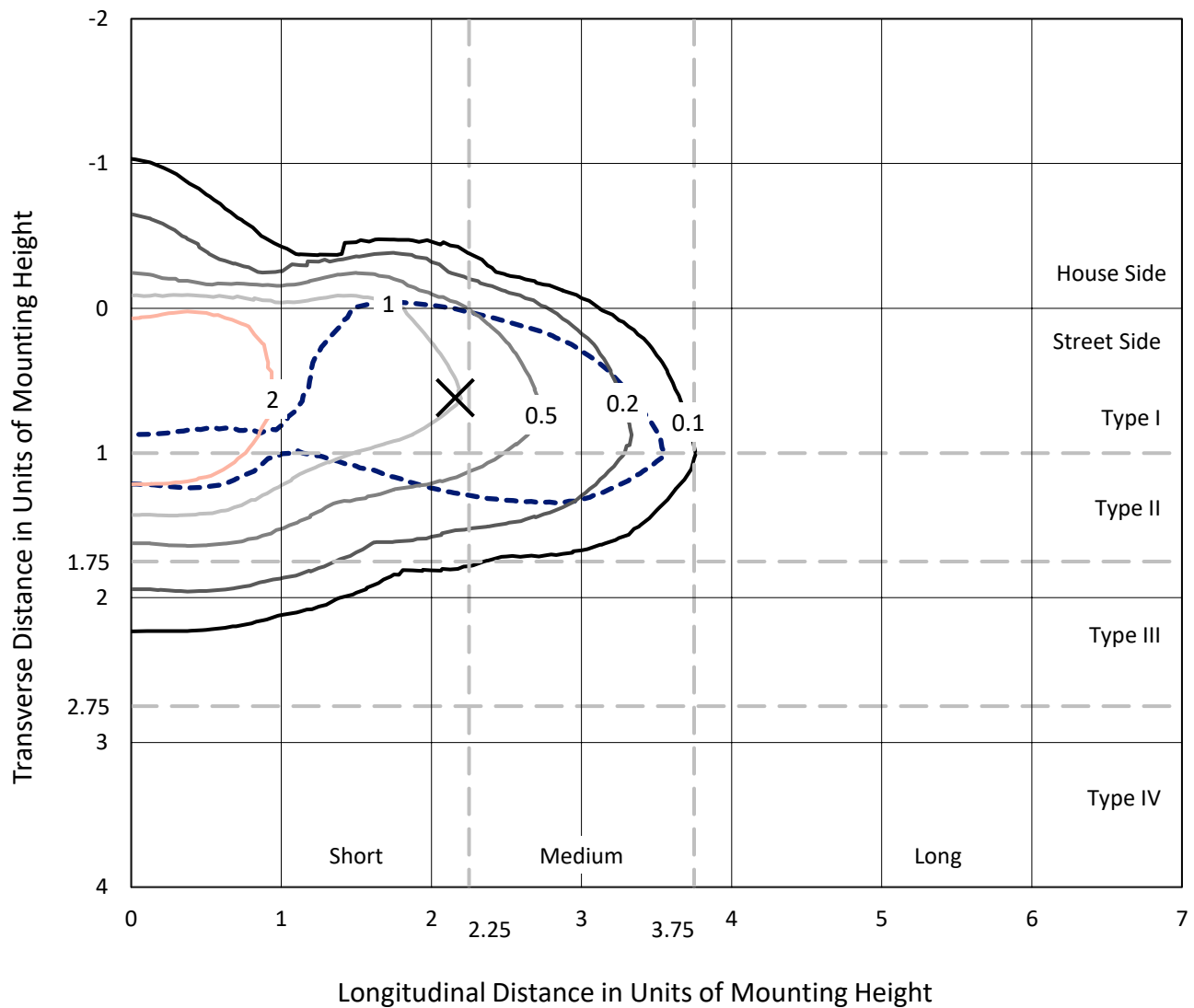


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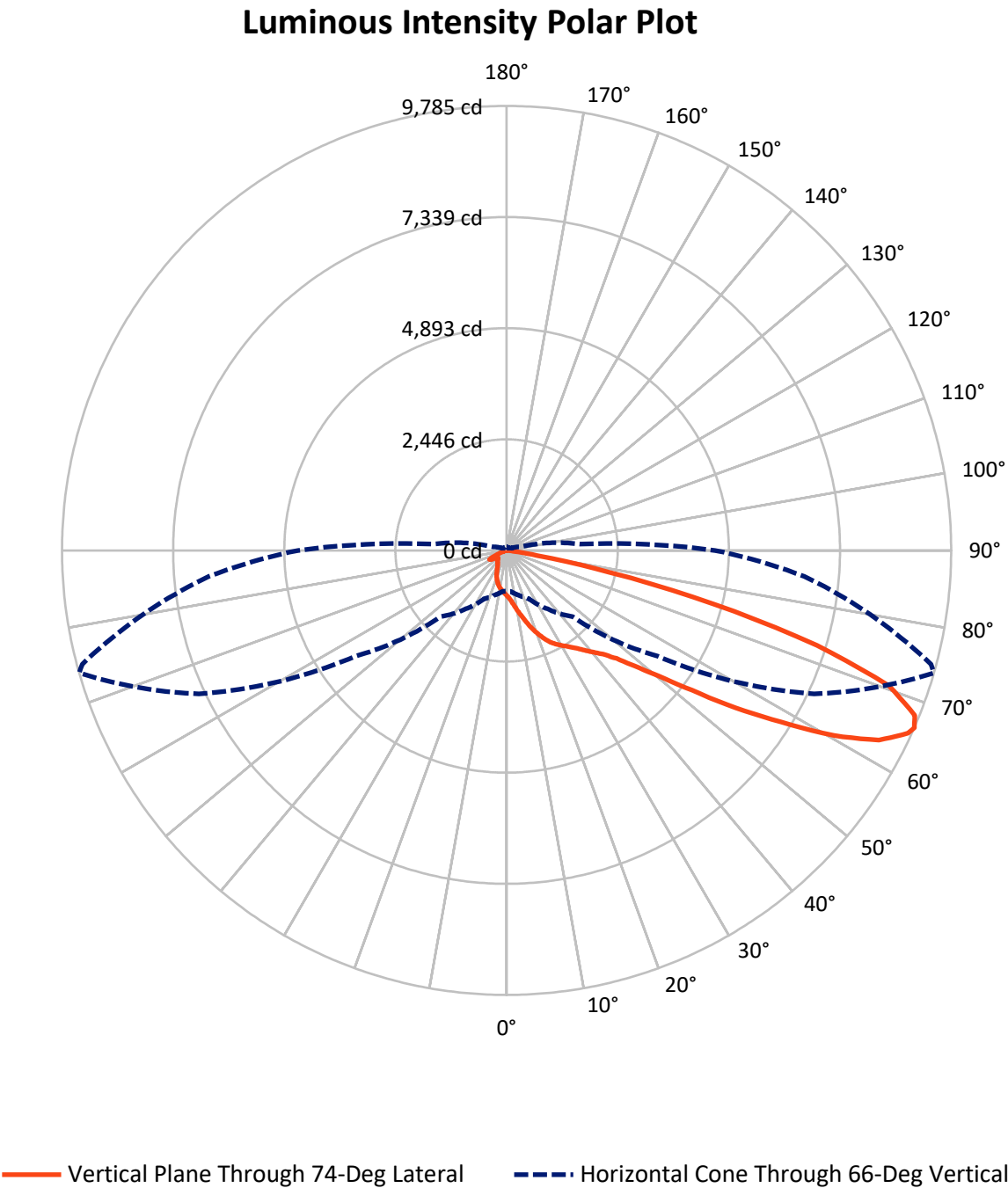
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.0	0.0	894.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8225.9	0.0	8225.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	9120.0	0.0	9120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	1.1
10°-20°	311.5	3.4
20°-30°	594.5	6.5
30°-40°	1042.0	11.4
40°-50°	1786.8	19.6
50°-60°	2323.8	25.5
60°-70°	2103.6	23.1
70°-80°	811.7	8.9
80°-90°	48.8	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°	9120.0	100.0
0°-180°	9120.0	100.0

Coefficient of Utilization



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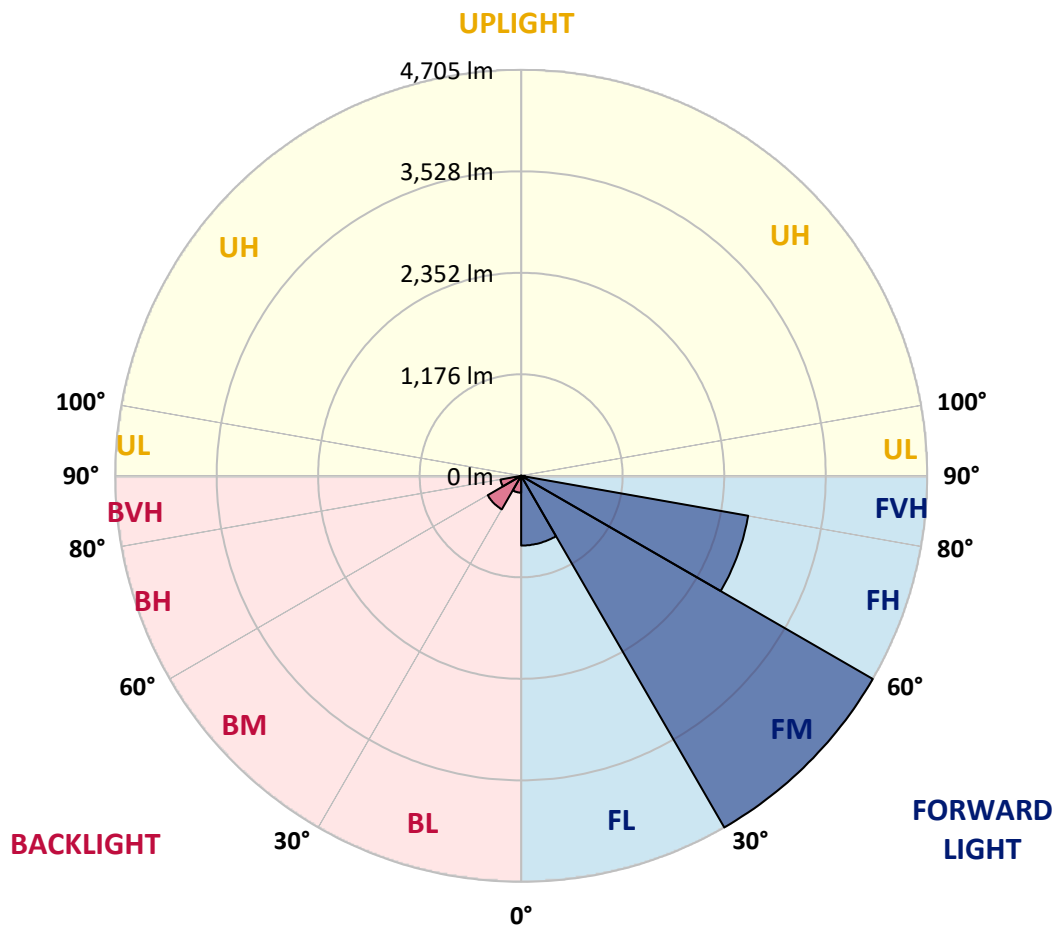
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.2	8.9			
FM	(30°-60°)	4704.6	51.6			
FH	(60°-80°)	2670.9	29.3			G2/5000
FVH	(80°-90°)	42.3	0.5			G1/100
BL	(0°-30°)	195.0	2.1	B1/500		
BM	(30°-60°)	448.1	4.9	B1/1000		
BH	(60°-80°)	244.4	2.7	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5
2.5°	1195.3	1185.5	1167.5	1165.8	1151.1	1133.1	1102.0	1069.2	1046.3	1043.0	1015.2
5°	1431.1	1426.2	1408.1	1396.7	1368.8	1326.3	1254.2	1182.2	1121.6	1115.1	1052.8
7.5°	1493.3	1496.6	1499.8	1511.3	1501.5	1481.8	1427.8	1326.3	1231.3	1216.6	1108.5
10°	1503.1	1499.8	1499.8	1514.6	1542.4	1570.2	1563.7	1476.9	1354.1	1336.1	1185.5
12.5°	1609.5	1614.5	1603.0	1596.4	1591.5	1606.3	1655.4	1617.7	1483.5	1468.7	1278.8
15°	1747.1	1745.4	1729.1	1729.1	1714.3	1689.8	1720.9	1748.7	1639.0	1621.0	1385.2
17.5°	1847.0	1853.5	1851.9	1861.7	1856.8	1824.0	1807.7	1865.0	1799.5	1776.6	1506.4
20°	1927.2	1945.2	1951.8	1982.9	1997.6	1974.7	1932.1	1968.1	1953.4	1932.1	1629.2
22.5°	2012.3	2027.1	2038.5	2092.6	2133.5	2128.6	2074.6	2066.4	2102.4	2082.7	1750.4
25°	2097.5	2104.0	2138.4	2203.9	2269.4	2285.8	2230.1	2166.3	2236.7	2218.6	1858.4
27.5°	2190.8	2194.1	2235.0	2315.3	2406.9	2441.3	2397.1	2279.2	2339.8	2339.8	1956.7
30°	2361.1	2393.8	2410.2	2482.3	2562.5	2610.0	2557.6	2398.8	2431.5	2446.2	2059.8
32.5°	2727.9	2732.8	2727.9	2759.0	2775.4	2803.2	2742.6	2533.0	2524.8	2541.2	2161.3
35°	3287.9	3268.2	3215.8	3170.0	3075.0	3022.6	2944.0	2705.0	2639.5	2662.4	2261.2
37.5°	3967.4	3939.5	3820.0	3679.2	3476.2	3266.6	3168.3	2914.5	2785.2	2814.7	2369.3
40°	4615.8	4597.8	4455.3	4281.7	3934.6	3576.0	3368.1	3091.4	2947.3	2958.7	2479.0
42.5°	5149.6	5146.3	5026.8	4845.0	4399.6	3910.1	3603.9	3264.9	3117.6	3135.6	2593.6
45°	5554.0	5522.9	5434.5	5303.5	4849.9	4257.2	3888.8	3528.6	3391.0	3412.3	2765.5
47.5°	5554.0	5558.9	5616.2	5603.1	5164.3	4583.0	4199.9	3860.9	3795.4	3815.1	3048.8
50°	5102.1	5147.9	5403.4	5617.8	5328.0	4836.8	4535.5	4276.8	4344.0	4373.4	3543.3
52.5°	4208.1	4285.0	4728.8	5218.3	5206.9	4964.5	4882.7	4805.7	5107.0	5159.4	4273.6
55°	3197.8	3248.6	3826.6	4470.0	4679.6	4859.7	5185.6	5477.0	6117.3	6105.8	5015.3
57.5°	2388.9	2436.4	2934.2	3648.1	3924.8	4406.2	5341.1	6245.0	7119.3	7163.5	5711.2
60°	1756.9	1792.9	2217.0	2803.2	3202.7	3711.9	5278.9	7001.4	8273.7	8222.9	6325.2
62.5°	1300.1	1319.7	1625.9	2007.4	2537.9	3024.2	4887.6	7518.8	9195.5	9092.4	6667.4
65°	1005.4	1011.9	1170.7	1373.8	1845.3	2351.3	4304.7	7597.4	9704.7	9595.0	6660.9
66°	895.6	900.6	1016.8	1174.0	1570.2	2058.2	4049.2	7471.4	9785.0	9668.7	6579.0
67.5°	751.6	748.3	817.1	920.2	1178.9	1588.3	3595.7	7103.0	9690.0	9631.1	6317.0
70°	556.7	558.3	592.7	617.3	689.3	879.3	2596.9	6161.5	8930.3	8927.0	5598.2
72.5°	412.6	417.5	443.7	448.6	430.6	476.5	1496.6	4900.7	7143.9	7145.5	4185.1
75°	309.5	317.7	325.8	329.1	312.7	301.3	676.2	3297.7	4699.3	4664.9	2369.3
77.5°	235.8	239.1	245.6	240.7	237.4	207.9	281.6	1607.9	2320.2	2113.9	767.9
80°	171.9	171.9	178.5	171.9	170.3	149.0	153.9	515.8	681.1	566.5	165.4
82.5°	108.1	106.4	111.3	109.7	106.4	95.0	90.1	144.1	157.2	140.8	80.2
85°	60.6	58.9	57.3	55.7	50.8	42.6	49.1	54.0	72.0	73.7	57.3
87.5°	21.3	21.3	19.6	18.0	14.7	14.7	18.0	18.0	26.2	26.2	29.5
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°	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5
2.5°	1002.1	984.1	957.9	923.5	898.9	874.4	848.2	833.4	812.1	807.2	813.8
5°	1020.1	987.3	921.8	849.8	787.6	731.9	679.5	648.4	617.3	605.8	610.7
7.5°	1057.7	1002.1	890.7	774.5	671.3	587.8	525.6	489.6	461.7	450.3	453.6
10°	1113.4	1028.3	861.3	689.3	556.7	468.3	415.9	393.0	376.6	370.0	371.7
12.5°	1180.6	1065.9	823.6	604.2	458.5	381.5	356.9	352.0	348.8	345.5	347.1
15°	1255.9	1098.7	779.4	520.7	381.5	338.9	330.8	329.1	327.5	327.5	327.5
17.5°	1334.5	1128.2	730.3	442.1	332.4	312.7	307.8	307.8	307.8	309.5	309.5
20°	1408.1	1151.1	673.0	371.7	304.6	288.2	284.9	284.9	286.5	288.2	288.2
22.5°	1480.2	1160.9	605.8	322.6	281.6	266.9	262.0	262.0	262.0	263.6	263.6
25°	1542.4	1160.9	538.7	291.5	262.0	247.2	240.7	239.1	240.7	240.7	240.7
27.5°	1594.8	1156.0	473.2	270.2	242.3	227.6	221.0	219.4	222.7	224.3	224.3
30°	1650.5	1149.4	420.8	250.5	226.0	211.2	204.7	204.7	209.6	216.1	216.1
32.5°	1704.5	1154.4	379.9	234.1	209.6	198.1	191.6	193.2	203.0	212.9	212.9
35°	1761.8	1164.2	355.3	222.7	198.1	186.7	181.7	186.7	196.5	206.3	206.3
37.5°	1819.1	1175.6	340.6	212.9	188.3	176.8	173.6	180.1	191.6	201.4	203.0
40°	1879.7	1185.5	324.2	203.0	181.7	168.7	167.0	173.6	188.3	198.1	199.8
42.5°	1955.0	1205.1	304.6	194.8	175.2	158.8	160.5	165.4	180.1	194.8	196.5
45°	2102.4	1267.3	284.9	186.7	167.0	153.9	150.6	153.9	170.3	186.7	189.9
47.5°	2379.1	1408.1	263.6	178.5	158.8	150.6	137.5	140.8	155.6	173.6	175.2
50°	2909.6	1707.8	252.2	170.3	152.3	139.2	124.4	124.4	135.9	152.3	152.3
52.5°	3736.5	2244.8	258.7	163.7	144.1	127.7	113.0	111.3	117.9	129.4	129.4
55°	4628.9	2834.3	283.3	157.2	134.3	121.2	104.8	96.6	101.5	108.1	108.1
57.5°	5336.2	3130.7	350.4	153.9	122.8	116.3	95.0	83.5	88.4	95.0	95.0
60°	5647.3	2957.1	425.7	157.2	114.6	108.1	85.1	73.7	81.9	88.4	90.1
62.5°	5395.2	2434.8	456.8	149.0	103.2	96.6	83.5	68.8	78.6	83.5	85.1
65°	4849.9	1850.2	356.9	129.4	95.0	83.5	75.3	65.5	73.7	78.6	78.6
66°	4591.2	1612.8	304.6	119.5	91.7	78.6	72.0	65.5	72.0	75.3	77.0
67.5°	4190.1	1272.2	226.0	104.8	85.1	72.0	67.1	62.2	68.8	72.0	72.0
70°	3276.4	758.1	135.9	81.9	73.7	63.9	60.6	57.3	62.2	63.9	63.9
72.5°	2051.6	360.2	86.8	60.6	62.2	60.6	50.8	54.0	55.7	57.3	57.3
75°	993.9	142.5	58.9	44.2	50.8	57.3	40.9	47.5	49.1	52.4	50.8
77.5°	276.7	68.8	37.7	32.7	44.2	44.2	31.1	37.7	44.2	55.7	50.8
80°	80.2	44.2	24.6	24.6	31.1	31.1	21.3	26.2	29.5	32.7	34.4
82.5°	55.7	29.5	16.4	18.0	18.0	19.6	13.1	13.1	16.4	16.4	18.0
85°	44.2	13.1	9.8	11.5	8.2	9.8	6.5	6.5	8.2	6.5	6.5
87.5°	18.0	6.5	6.5	6.5	4.9	4.9	3.3	1.6	1.6	1.6	1.6
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)