

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: P1210182

Luminaire Tested: **ARCH2-40-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4855 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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



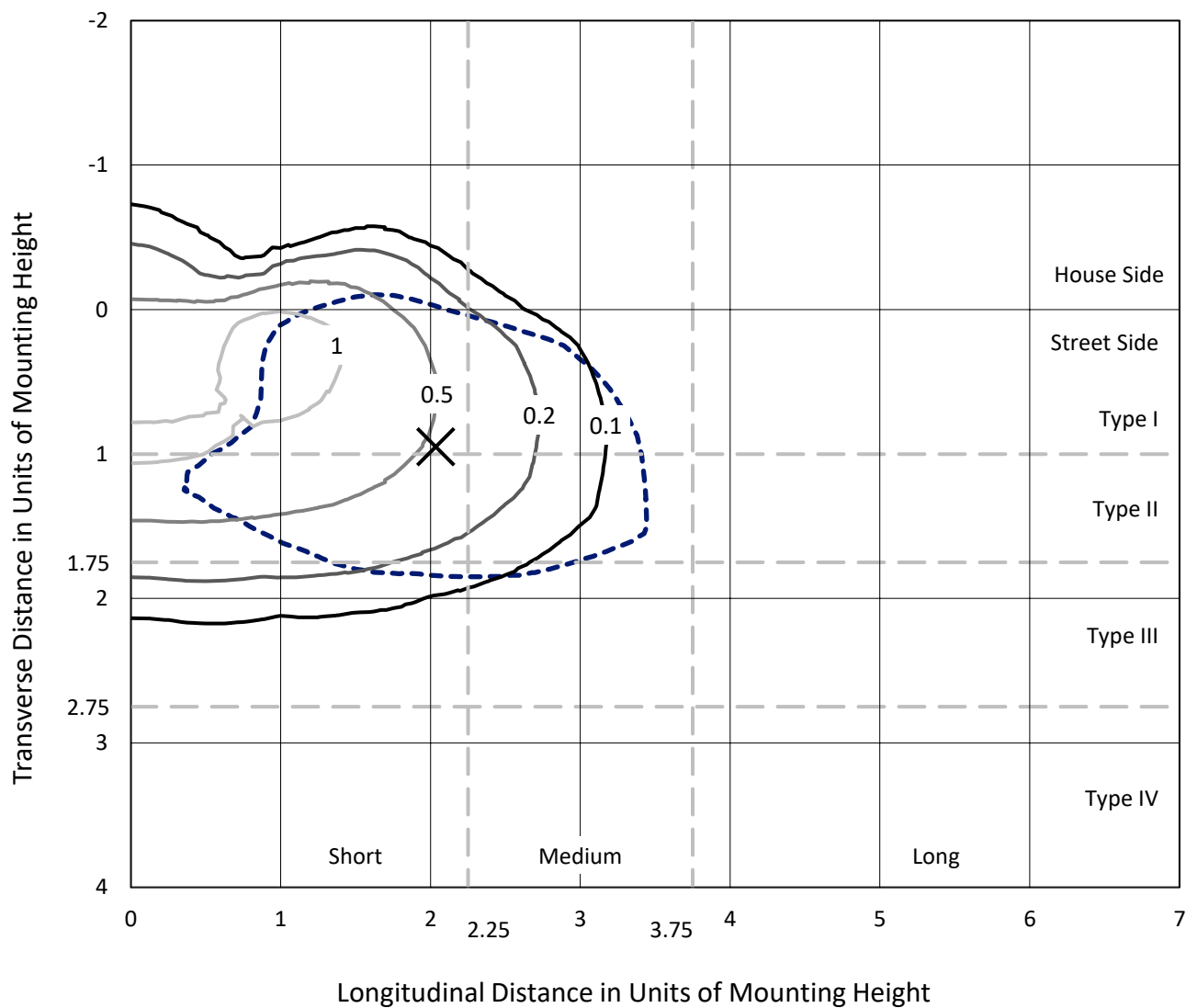
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

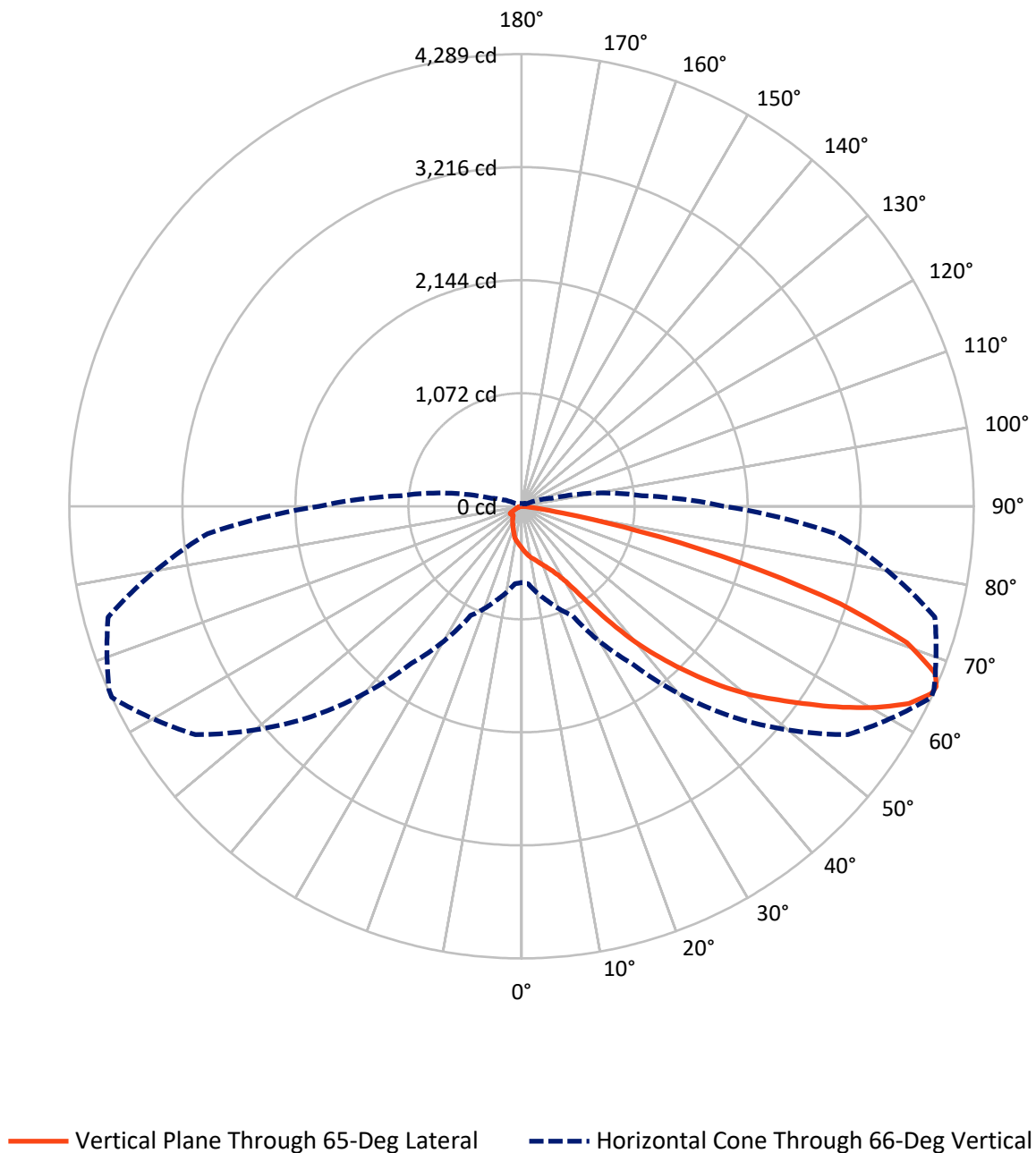
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	573.0	0.0	573.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4282.0	0.0	4282.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	4855.0	0.0	4855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.8
10°-20°	111.0	2.3
20°-30°	203.2	4.2
30°-40°	412.9	8.5
40°-50°	871.8	18.0
50°-60°	1340.3	27.6
60°-70°	1349.1	27.8
70°-80°	504.1	10.4
80°-90°	25.2	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°	4855.0	100.0
0°-180°	4855.0	100.0

Coefficient of Utilization



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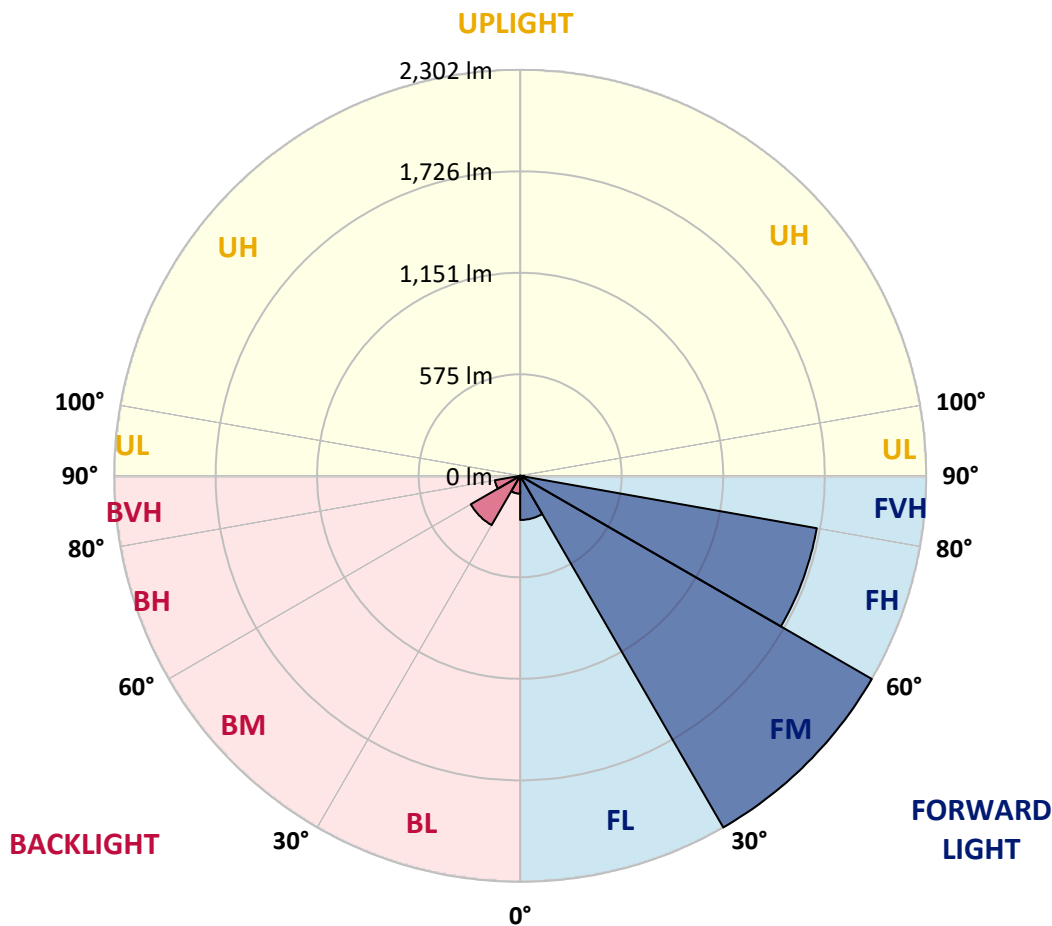
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.3	5.2			
FM	(30°-60°)	2301.9	47.4			
FH	(60°-80°)	1707.6	35.2			G1/1800
FVH	(80°-90°)	22.2	0.5			G1/100
BL	(0°-30°)	101.4	2.1	B0/110		
BM	(30°-60°)	323.1	6.7	B1/1000		
BH	(60°-80°)	145.6	3.0	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5
2.5°	451.0	451.9	450.2	446.6	443.1	438.7	431.7	420.2	418.5	410.5	401.7
5°	481.9	483.6	481.0	480.1	478.4	472.2	462.5	445.8	444.0	428.1	407.9
7.5°	492.5	495.1	493.3	493.3	493.3	490.7	486.3	471.3	468.7	448.4	417.6
10°	500.4	502.1	501.3	504.8	507.4	505.7	503.0	494.2	491.6	471.3	430.8
12.5°	512.7	513.6	514.5	516.2	520.6	522.4	521.5	513.6	511.8	497.7	447.5
15°	524.2	524.2	525.0	533.0	539.1	542.7	543.5	537.4	535.6	524.2	468.7
17.5°	534.7	535.6	538.3	547.1	557.6	564.7	569.1	566.4	563.8	555.0	493.3
20°	550.6	552.4	555.0	567.3	577.9	589.4	598.2	597.3	596.4	590.2	522.4
22.5°	577.9	579.7	584.1	595.5	606.1	620.2	635.2	634.3	631.6	627.2	556.8
25°	619.3	619.3	621.9	631.6	644.9	661.6	675.7	678.3	675.7	673.0	599.9
27.5°	671.3	672.2	672.2	682.7	695.1	716.2	733.8	736.5	736.5	733.8	658.1
30°	743.5	740.9	739.1	747.9	761.1	792.0	822.8	828.1	825.4	829.9	740.0
32.5°	867.7	863.3	848.4	850.1	858.0	900.3	952.3	970.8	969.9	977.9	872.1
35°	1039.5	1030.7	1008.7	990.2	989.3	1035.1	1114.4	1184.0	1183.1	1210.4	1073.0
37.5°	1233.3	1244.8	1203.4	1171.7	1162.0	1198.1	1300.3	1450.9	1458.9	1506.4	1336.4
40°	1492.3	1499.4	1446.5	1401.6	1355.8	1369.0	1503.8	1738.1	1752.2	1805.1	1599.8
42.5°	1717.8	1724.9	1694.1	1639.4	1581.3	1556.6	1709.0	1998.9	2010.3	2083.4	1871.1
45°	1871.1	1876.4	1887.0	1892.3	1826.2	1775.1	1960.1	2266.7	2280.8	2365.3	2136.3
47.5°	1990.9	1995.3	2016.5	2069.3	2056.1	2015.6	2215.6	2545.1	2548.6	2642.8	2394.4
50°	2046.4	2057.0	2109.0	2190.0	2248.2	2259.6	2493.1	2808.5	2818.2	2908.0	2638.4
52.5°	1984.8	1988.3	2119.6	2272.0	2389.1	2505.4	2771.5	3052.5	3080.7	3147.6	2857.8
55°	1776.9	1802.4	2001.5	2269.3	2500.1	2738.9	3069.2	3315.9	3341.4	3383.7	3050.7
57.5°	1535.5	1563.7	1805.9	2155.7	2547.7	2954.7	3345.0	3596.0	3613.7	3625.1	3227.8
60°	1326.7	1353.1	1602.4	1938.1	2500.1	3107.1	3601.3	3874.4	3889.4	3858.6	3316.8
62.5°	1070.4	1096.8	1347.9	1650.0	2313.4	3137.9	3791.6	4122.0	4128.1	4044.4	3262.2
65°	806.9	824.6	1034.2	1293.2	1986.5	2974.1	3834.8	4276.1	4270.0	4098.2	3098.3
66°	723.3	738.2	923.2	1143.5	1816.5	2824.3	3776.6	4288.5	4282.3	4058.5	2990.8
67.5°	623.7	628.1	780.5	935.6	1519.6	2506.3	3599.6	4232.1	4237.4	3949.3	2794.4
70°	487.2	486.3	574.4	651.0	1037.8	1783.0	3002.3	3877.1	3902.6	3537.0	2383.0
72.5°	311.9	301.3	352.4	398.2	604.3	1035.1	2189.2	3160.0	3203.1	2778.5	1775.1
75°	185.9	175.3	187.6	199.1	289.8	497.7	1287.1	2150.4	2191.8	1781.3	1056.3
77.5°	139.2	134.8	135.7	126.0	128.6	186.8	587.6	1136.4	1166.4	729.4	400.8
80°	106.6	95.1	89.0	93.4	84.6	74.0	218.5	391.1	409.6	172.7	83.7
82.5°	71.4	61.7	57.3	62.5	53.7	41.4	52.9	75.8	74.0	46.7	32.6
85°	37.0	31.7	31.7	31.7	27.3	20.3	22.9	30.8	30.8	24.7	19.4
87.5°	10.6	9.7	11.5	10.6	7.9	7.9	8.8	10.6	10.6	9.7	8.8
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°	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5
2.5°	394.7	391.1	381.5	374.4	367.4	361.2	354.1	352.4	348.9	349.7	348.0
5°	397.3	387.6	370.9	355.0	342.7	332.1	318.9	313.6	306.6	303.9	302.2
7.5°	400.8	386.7	362.1	340.0	318.9	297.8	276.6	264.3	256.4	252.8	250.2
10°	408.8	390.3	357.7	323.3	287.2	257.2	236.1	227.3	222.0	221.1	220.2
12.5°	419.3	395.5	353.3	302.2	254.6	226.4	213.2	210.5	209.7	209.7	208.8
15°	435.2	404.4	346.2	277.5	229.0	209.7	203.5	199.1	197.3	197.3	197.3
17.5°	451.0	414.9	335.6	252.0	211.4	199.1	192.9	190.3	188.5	189.4	188.5
20°	471.3	427.3	321.5	229.9	200.0	190.3	184.1	181.5	180.6	180.6	180.6
22.5°	494.2	441.4	303.9	213.2	190.3	181.5	175.3	172.7	170.9	171.8	171.8
25°	525.0	459.0	285.4	196.5	180.6	172.7	165.6	162.1	162.1	163.0	163.9
27.5°	564.7	480.1	266.9	185.9	171.8	163.9	155.9	152.4	153.3	155.0	155.0
30°	622.8	509.2	248.4	174.4	162.1	153.3	146.2	142.7	144.5	148.0	148.0
32.5°	705.6	556.8	232.6	161.2	148.0	138.3	131.3	128.6	133.0	140.1	140.1
35°	853.6	644.0	222.9	148.0	133.0	121.6	112.8	110.1	116.3	125.1	125.1
37.5°	1051.9	784.0	226.4	136.5	120.7	107.5	97.8	94.3	98.7	106.6	109.2
40°	1273.0	953.2	257.2	126.9	109.2	96.0	86.3	82.8	85.5	89.0	89.9
42.5°	1494.1	1132.9	315.4	119.8	100.4	86.3	77.5	74.9	76.6	77.5	78.4
45°	1714.3	1310.9	388.5	115.4	92.5	78.4	69.6	69.6	70.5	70.5	70.5
47.5°	1923.1	1484.4	465.1	114.5	85.5	70.5	63.4	64.3	64.3	65.2	65.2
50°	2120.4	1639.4	542.7	117.2	79.3	63.4	58.1	58.1	58.1	59.0	58.1
52.5°	2285.2	1775.1	623.7	121.6	73.1	58.1	52.9	52.9	52.9	53.7	52.9
55°	2441.1	1898.4	706.5	127.7	67.8	53.7	48.5	46.7	46.7	47.6	46.7
57.5°	2568.0	1980.4	784.9	128.6	63.4	49.3	44.9	42.3	42.3	42.3	42.3
60°	2573.3	1932.8	807.8	112.8	58.1	44.9	40.5	37.0	37.9	37.9	37.9
62.5°	2405.0	1682.6	649.3	84.6	52.0	40.5	37.0	33.5	33.5	33.5	33.5
65°	2074.6	1309.1	380.6	67.0	44.9	36.1	32.6	30.0	30.0	30.0	29.1
66°	1919.6	1147.9	291.6	60.8	42.3	35.2	31.7	29.1	28.2	27.3	27.3
67.5°	1666.8	907.4	182.4	53.7	38.8	32.6	29.1	26.4	25.5	24.7	24.7
70°	1255.4	576.1	89.0	41.4	33.5	28.2	25.5	22.9	22.0	21.1	20.3
72.5°	880.9	337.4	46.7	31.7	27.3	24.7	22.0	19.4	18.5	17.6	17.6
75°	497.7	163.0	30.8	22.9	22.0	20.3	18.5	15.9	15.0	15.0	15.0
77.5°	188.5	56.4	21.1	16.7	17.6	15.9	13.2	13.2	12.3	13.2	12.3
80°	49.3	24.7	13.2	12.3	13.2	11.5	9.7	10.6	10.6	10.6	10.6
82.5°	26.4	14.1	7.9	8.8	7.9	7.9	6.2	7.0	7.9	7.0	7.9
85°	18.5	7.0	4.4	4.4	3.5	3.5	2.6	3.5	4.4	3.5	3.5
87.5°	9.7	2.6	2.6	2.6	2.6	1.8	0.9	0.0	0.9	0.9	0.9
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)