

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: P1210138

Luminaire Tested: **ARCH2-30-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210138
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: ARCH2-30-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

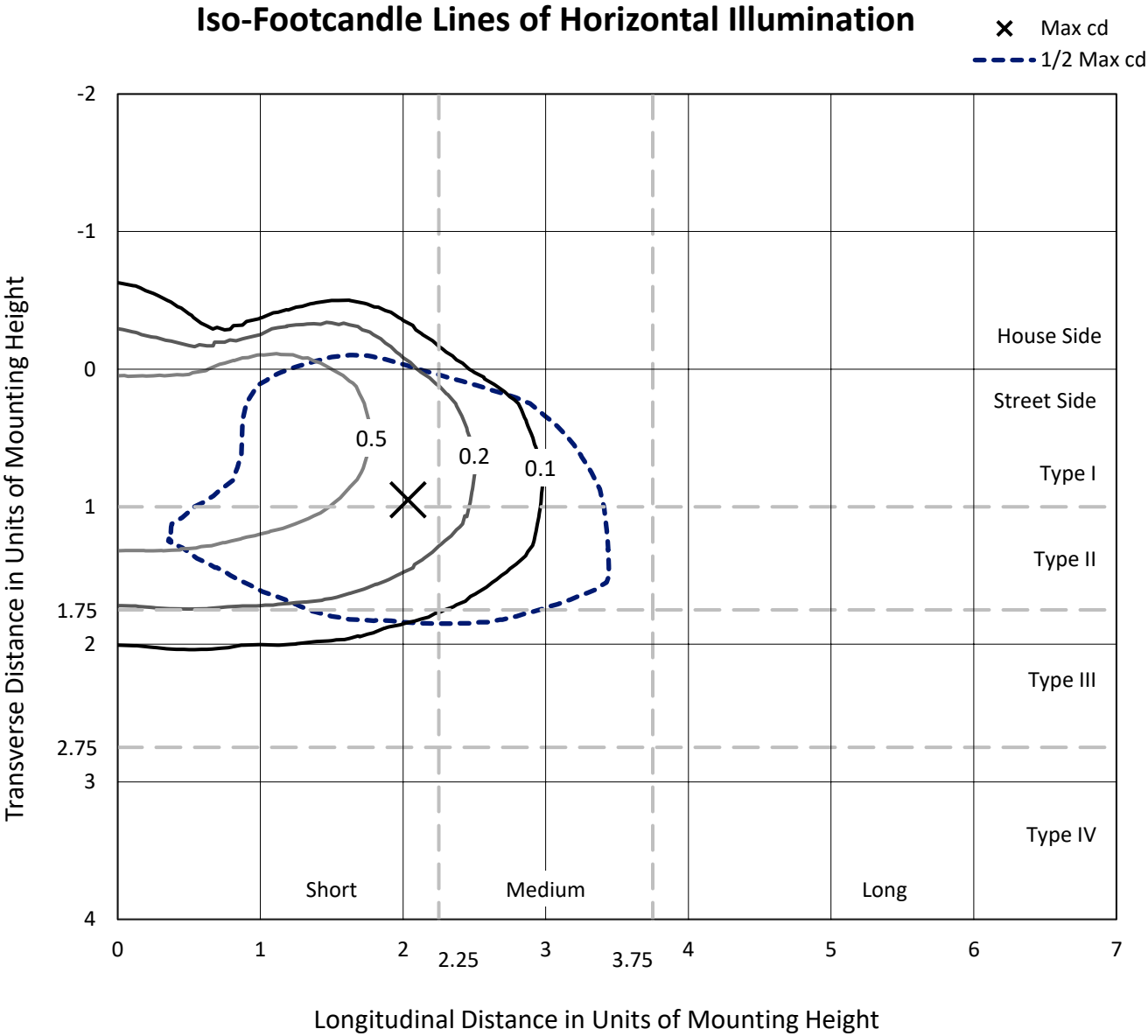
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542 lumens
Efficiency: N/A
Efficacy: 103.0 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): 34.4
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



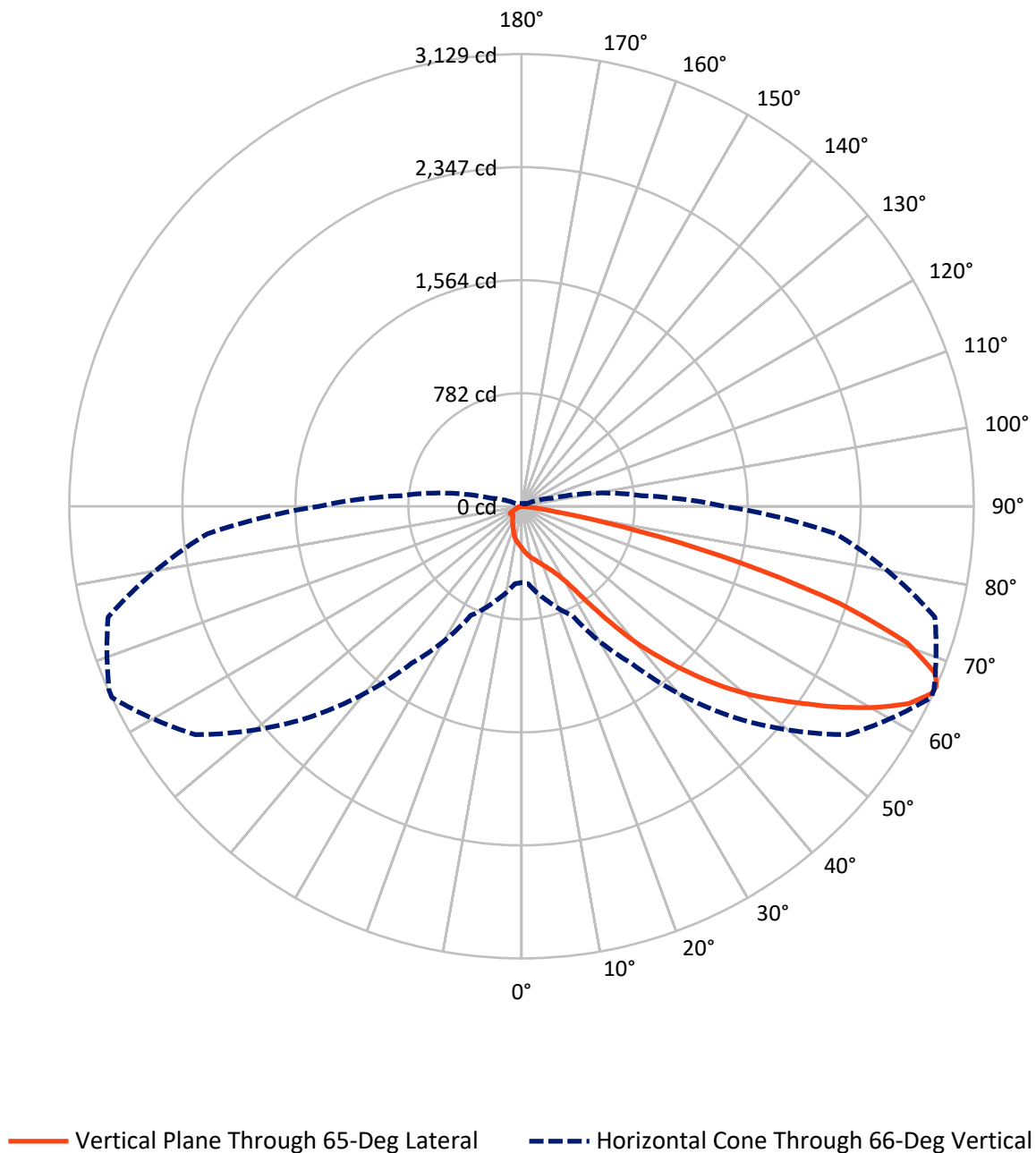
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Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.0	0.0	418.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3124.0	0.0	3124.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	3542.0	0.0	3542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.8
10°-20°	81.0	2.3
20°-30°	148.2	4.2
30°-40°	301.2	8.5
40°-50°	636.0	18.0
50°-60°	977.8	27.6
60°-70°	984.2	27.8
70°-80°	367.8	10.4
80°-90°	18.4	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°	3542.0	100.0
0°-180°	3542.0	100.0

Coefficient of Utilization



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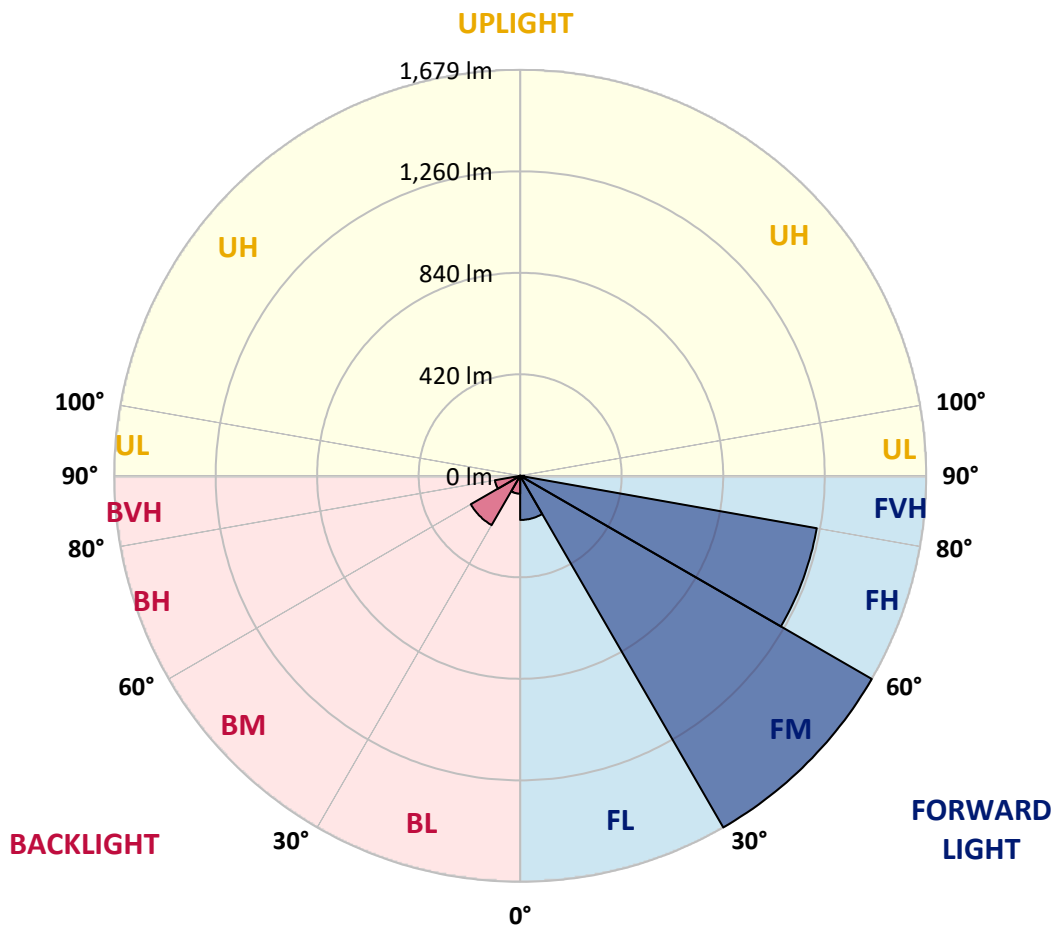
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.6	5.2			
FM	(30°-60°)	1679.4	47.4			
FH	(60°-80°)	1245.8	35.2			G1/1800
FVH	(80°-90°)	16.2	0.5			G1/100
BL	(0°-30°)	74.0	2.1	B0/110		
BM	(30°-60°)	235.7	6.7	B1/1000		
BH	(60°-80°)	106.2	3.0	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6
2.5°	329.1	329.7	328.4	325.9	323.3	320.1	314.9	306.6	305.3	299.5	293.1
5°	351.6	352.8	350.9	350.3	349.0	344.5	337.4	325.2	323.9	312.4	297.6
7.5°	359.3	361.2	359.9	359.9	359.9	358.0	354.8	343.8	341.9	327.1	304.6
10°	365.1	366.3	365.7	368.3	370.2	368.9	367.0	360.6	358.6	343.8	314.3
12.5°	374.1	374.7	375.3	376.6	379.8	381.1	380.5	374.7	373.4	363.1	326.5
15°	382.4	382.4	383.1	388.8	393.3	395.9	396.5	392.0	390.8	382.4	341.9
17.5°	390.1	390.8	392.7	399.1	406.8	412.0	415.2	413.3	411.3	404.9	359.9
20°	401.7	403.0	404.9	413.9	421.6	430.0	436.4	435.8	435.1	430.6	381.1
22.5°	421.6	422.9	426.1	434.5	442.2	452.5	463.4	462.7	460.8	457.6	406.2
25°	451.8	451.8	453.7	460.8	470.5	482.7	493.0	494.9	493.0	491.0	437.7
27.5°	489.7	490.4	490.4	498.1	507.1	522.5	535.4	537.3	537.3	535.4	480.1
30°	542.4	540.5	539.2	545.7	555.3	577.8	600.3	604.1	602.2	605.4	539.9
32.5°	633.1	629.8	618.9	620.2	626.0	656.8	694.8	708.3	707.6	713.4	636.3
35°	758.4	752.0	735.9	722.4	721.8	755.2	813.0	863.8	863.1	883.1	782.8
37.5°	899.8	908.1	877.9	854.8	847.7	874.1	948.6	1058.5	1064.3	1099.0	975.0
40°	1088.7	1093.9	1055.3	1022.5	989.1	998.8	1097.1	1268.1	1278.3	1316.9	1167.1
42.5°	1253.3	1258.4	1235.9	1196.1	1153.7	1135.7	1246.8	1458.3	1466.6	1520.0	1365.1
45°	1365.1	1369.0	1376.7	1380.5	1332.3	1295.0	1430.0	1653.7	1664.0	1725.7	1558.6
47.5°	1452.5	1455.7	1471.1	1509.7	1500.1	1470.5	1616.4	1856.8	1859.3	1928.1	1746.9
50°	1493.0	1500.7	1538.6	1597.8	1640.2	1648.5	1818.8	2048.9	2056.0	2121.6	1924.9
52.5°	1448.0	1450.6	1546.3	1657.5	1743.0	1827.8	2021.9	2227.0	2247.5	2296.4	2084.9
55°	1296.3	1315.0	1460.2	1655.6	1824.0	1998.2	2239.2	2419.1	2437.8	2468.6	2225.7
57.5°	1120.2	1140.8	1317.5	1572.7	1858.7	2155.6	2440.3	2623.5	2636.4	2644.7	2354.9
60°	967.9	987.2	1169.1	1413.9	1824.0	2266.8	2627.4	2826.6	2837.5	2815.0	2419.8
62.5°	780.9	800.2	983.3	1203.8	1687.7	2289.3	2766.2	3007.2	3011.7	2950.6	2379.9
65°	588.7	601.6	754.5	943.5	1449.3	2169.8	2797.7	3119.7	3115.2	2989.9	2260.4
66°	527.7	538.6	673.6	834.2	1325.3	2060.5	2755.3	3128.7	3124.2	2960.9	2182.0
67.5°	455.0	458.2	569.4	682.5	1108.7	1828.5	2626.1	3087.5	3091.4	2881.2	2038.7
70°	355.4	354.8	419.0	475.0	757.1	1300.8	2190.3	2828.5	2847.2	2580.4	1738.5
72.5°	227.5	219.8	257.1	290.5	440.9	755.2	1597.1	2305.4	2336.9	2027.1	1295.0
75°	135.6	127.9	136.9	145.3	211.4	363.1	939.0	1568.8	1599.0	1299.5	770.6
77.5°	101.5	98.3	99.0	91.9	93.8	136.3	428.7	829.1	850.9	532.2	292.4
80°	77.8	69.4	64.9	68.1	61.7	54.0	159.4	285.4	298.9	126.0	61.1
82.5°	52.1	45.0	41.8	45.6	39.2	30.2	38.6	55.3	54.0	34.1	23.8
85°	27.0	23.1	23.1	23.1	19.9	14.8	16.7	22.5	22.5	18.0	14.1
87.5°	7.7	7.1	8.4	7.7	5.8	5.8	6.4	7.7	7.7	7.1	6.4
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°	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6
2.5°	287.9	285.4	278.3	273.1	268.0	263.5	258.4	257.1	254.5	255.2	253.9
5°	289.9	282.8	270.6	259.0	250.0	242.3	232.7	228.8	223.7	221.7	220.4
7.5°	292.4	282.1	264.2	248.1	232.7	217.2	201.8	192.8	187.0	184.5	182.5
10°	298.2	284.7	260.9	235.9	209.5	187.7	172.2	165.8	162.0	161.3	160.7
12.5°	305.9	288.6	257.7	220.4	185.7	165.2	155.5	153.6	153.0	153.0	152.3
15°	317.5	295.0	252.6	202.5	167.1	153.0	148.5	145.3	144.0	144.0	144.0
17.5°	329.1	302.7	244.9	183.8	154.2	145.3	140.8	138.8	137.5	138.2	137.5
20°	343.8	311.7	234.6	167.7	145.9	138.8	134.3	132.4	131.8	131.8	131.8
22.5°	360.6	322.0	221.7	155.5	138.8	132.4	127.9	126.0	124.7	125.3	125.3
25°	383.1	334.8	208.2	143.3	131.8	126.0	120.8	118.3	118.3	118.9	119.5
27.5°	412.0	350.3	194.7	135.6	125.3	119.5	113.8	111.2	111.8	113.1	113.1
30°	454.4	371.5	181.2	127.3	118.3	111.8	106.7	104.1	105.4	108.0	108.0
32.5°	514.8	406.2	169.7	117.6	108.0	100.9	95.8	93.8	97.0	102.2	102.2
35°	622.8	469.8	162.6	108.0	97.0	88.7	82.3	80.3	84.8	91.3	91.3
37.5°	767.4	572.0	165.2	99.6	88.1	78.4	71.3	68.8	72.0	77.8	79.7
40°	928.7	695.4	187.7	92.5	79.7	70.1	63.0	60.4	62.3	64.9	65.6
42.5°	1090.0	826.5	230.1	87.4	73.3	63.0	56.6	54.6	55.9	56.6	57.2
45°	1250.7	956.3	283.4	84.2	67.5	57.2	50.8	50.8	51.4	51.4	51.4
47.5°	1403.0	1083.0	339.3	83.6	62.3	51.4	46.3	46.9	46.9	47.6	47.6
50°	1547.0	1196.1	395.9	85.5	57.8	46.3	42.4	42.4	42.4	43.1	42.4
52.5°	1667.2	1295.0	455.0	88.7	53.3	42.4	38.6	38.6	38.6	39.2	38.6
55°	1780.9	1385.0	515.4	93.2	49.5	39.2	35.3	34.1	34.1	34.7	34.1
57.5°	1873.5	1444.8	572.6	93.8	46.3	36.0	32.8	30.8	30.8	30.8	30.8
60°	1877.3	1410.1	589.4	82.3	42.4	32.8	29.6	27.0	27.6	27.6	27.6
62.5°	1754.6	1227.6	473.7	61.7	37.9	29.6	27.0	24.4	24.4	24.4	24.4
65°	1513.6	955.1	277.6	48.8	32.8	26.4	23.8	21.9	21.9	21.9	21.2
66°	1400.4	837.4	212.7	44.3	30.8	25.7	23.1	21.2	20.6	19.9	19.9
67.5°	1216.0	662.0	133.0	39.2	28.3	23.8	21.2	19.3	18.6	18.0	18.0
70°	915.9	420.3	64.9	30.2	24.4	20.6	18.6	16.7	16.1	15.4	14.8
72.5°	642.7	246.2	34.1	23.1	19.9	18.0	16.1	14.1	13.5	12.9	12.9
75°	363.1	118.9	22.5	16.7	16.1	14.8	13.5	11.6	10.9	10.9	10.9
77.5°	137.5	41.1	15.4	12.2	12.9	11.6	9.6	9.6	9.0	9.6	9.0
80°	36.0	18.0	9.6	9.0	9.6	8.4	7.1	7.7	7.7	7.7	7.7
82.5°	19.3	10.3	5.8	6.4	5.8	5.8	4.5	5.1	5.8	5.1	5.8
85°	13.5	5.1	3.2	3.2	2.6	2.6	1.9	2.6	3.2	2.6	2.6
87.5°	7.1	1.9	1.9	1.9	1.9	1.3	0.6	0.0	0.6	0.6	0.6
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)