

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: P1210682

Luminaire Tested: **ARCH3-40-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210682
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: ARCH3-40-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4828 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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



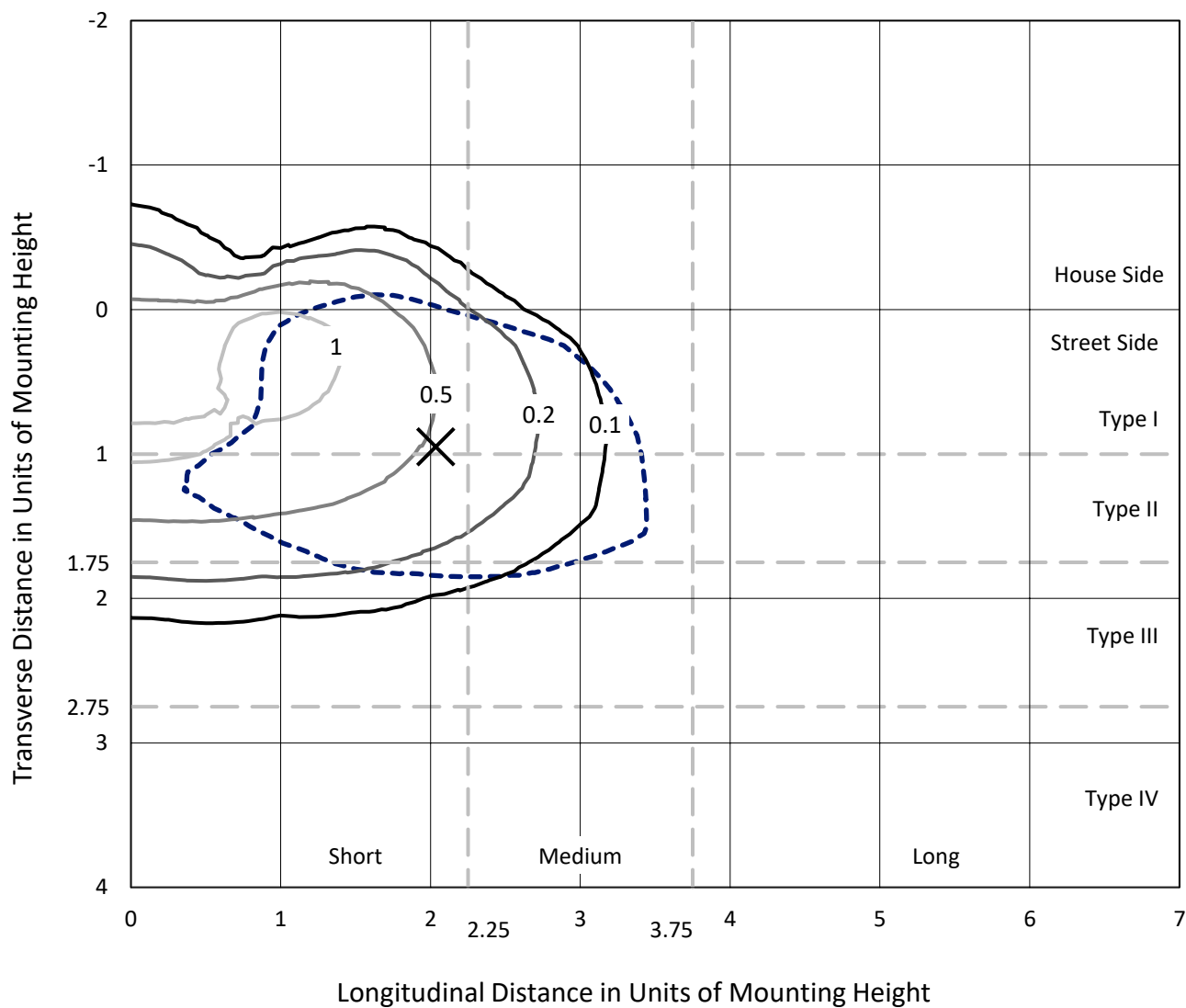
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

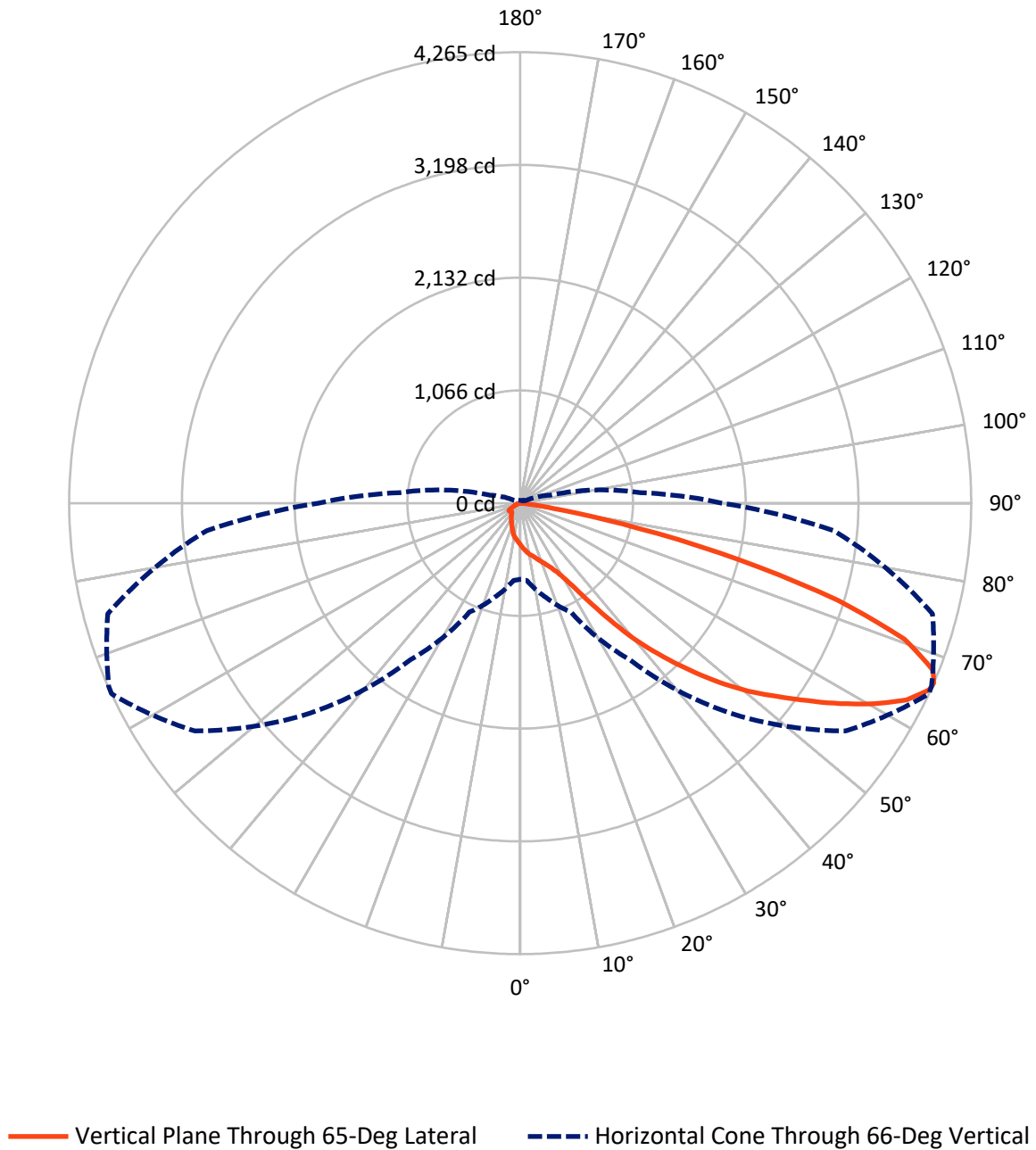
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	569.8	0.0	569.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4258.2	0.0	4258.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	4828.0	0.0	4828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	0.8
10°-20°	110.4	2.3
20°-30°	202.0	4.2
30°-40°	410.6	8.5
40°-50°	867.0	18.0
50°-60°	1332.8	27.6
60°-70°	1341.6	27.8
70°-80°	501.3	10.4
80°-90°	25.0	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°	4828.0	100.0
0°-180°	4828.0	100.0

Coefficient of Utilization



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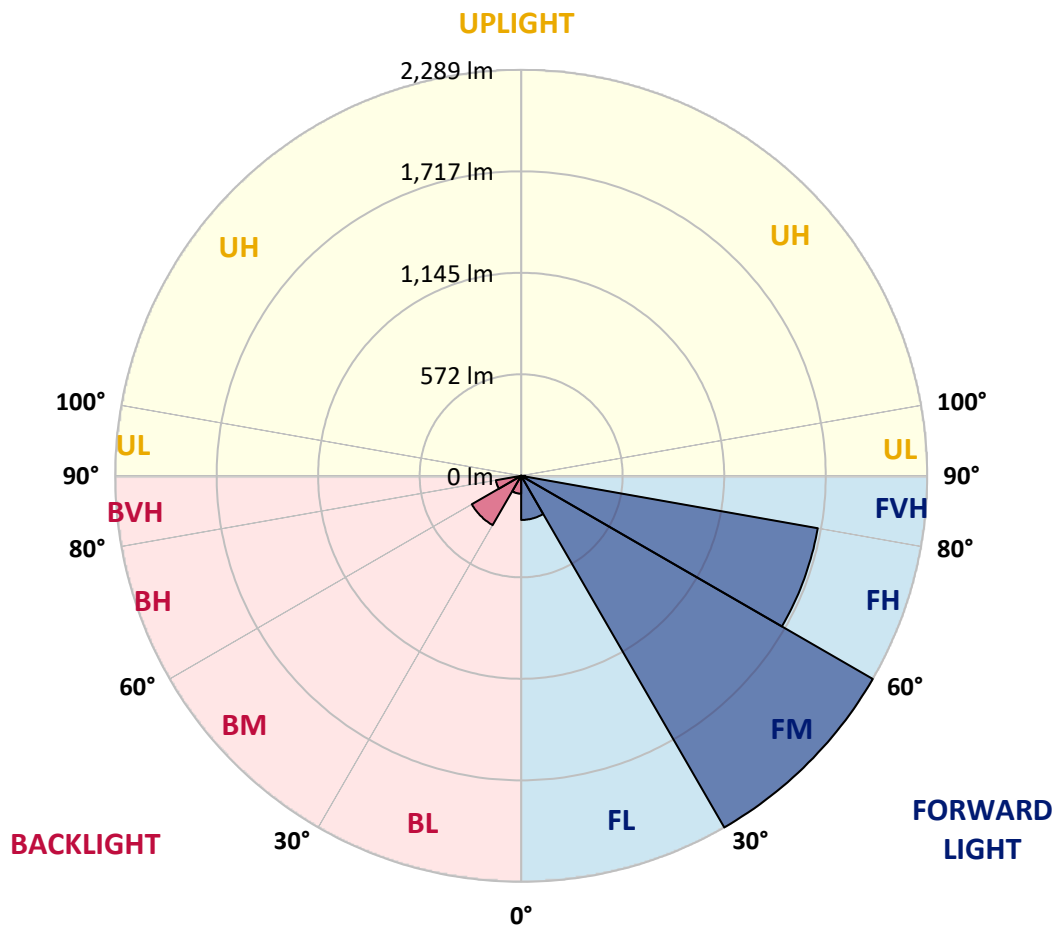
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.9	5.2			
FM	(30°-60°)	2289.1	47.4			
FH	(60°-80°)	1698.1	35.2			G1/1800
FVH	(80°-90°)	22.1	0.5			G1/100
BL	(0°-30°)	100.9	2.1	B0/110		
BM	(30°-60°)	321.3	6.7	B1/1000		
BH	(60°-80°)	144.7	3.0	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3
2.5°	448.5	449.4	447.7	444.2	440.7	436.3	429.3	417.9	416.1	408.2	399.5
5°	479.2	481.0	478.3	477.4	475.7	469.6	459.9	443.3	441.5	425.8	405.6
7.5°	489.7	492.3	490.6	490.6	490.6	488.0	483.6	468.7	466.1	445.9	415.2
10°	497.6	499.3	498.5	502.0	504.6	502.9	500.2	491.5	488.8	468.7	428.4
12.5°	509.9	510.7	511.6	513.4	517.7	519.5	518.6	510.7	509.0	495.0	445.0
15°	521.2	521.2	522.1	530.0	536.1	539.6	540.5	534.4	532.6	521.2	466.1
17.5°	531.8	532.6	535.3	544.0	554.5	561.5	565.9	563.3	560.7	551.9	490.6
20°	547.5	549.3	551.9	564.2	574.7	586.1	594.8	594.0	593.1	587.0	519.5
22.5°	574.7	576.4	580.8	592.2	602.7	616.7	631.6	630.8	628.1	623.7	553.7
25°	615.9	615.9	618.5	628.1	641.3	657.9	671.9	674.6	671.9	669.3	596.6
27.5°	667.5	668.4	668.4	678.9	691.2	712.2	729.7	732.4	732.4	729.7	654.4
30°	739.4	736.8	735.0	743.8	756.9	787.6	818.2	823.5	820.9	825.2	735.9
32.5°	862.9	858.5	843.6	845.4	853.3	895.3	947.0	965.4	964.5	972.4	867.3
35°	1033.7	1025.0	1003.1	984.7	983.8	1029.4	1108.2	1177.4	1176.5	1203.7	1067.0
37.5°	1226.5	1237.9	1196.7	1165.1	1155.5	1191.4	1293.0	1442.9	1450.7	1498.0	1329.0
40°	1484.0	1491.0	1438.5	1393.8	1348.2	1361.4	1495.4	1728.4	1742.5	1795.0	1590.9
42.5°	1708.3	1715.3	1684.6	1630.3	1572.5	1548.0	1699.5	1987.8	1999.1	2071.9	1860.7
45°	1860.7	1866.0	1876.5	1881.8	1816.1	1765.2	1949.2	2254.1	2268.1	2352.2	2124.4
47.5°	1979.9	1984.3	2005.3	2057.8	2044.7	2004.4	2203.3	2530.9	2534.4	2628.1	2381.1
50°	2035.1	2045.6	2097.3	2177.9	2235.7	2247.1	2479.2	2792.8	2802.5	2891.8	2623.8
52.5°	1973.7	1977.2	2107.8	2259.3	2375.8	2491.5	2756.1	3035.5	3063.5	3130.1	2841.9
55°	1767.0	1792.4	1990.4	2256.7	2486.2	2723.6	3052.2	3297.4	3322.9	3364.9	3033.8
57.5°	1527.0	1555.0	1795.9	2143.7	2533.5	2938.3	3326.4	3576.0	3593.6	3604.9	3209.8
60°	1319.3	1345.6	1593.5	1927.3	2486.2	3089.8	3581.3	3852.9	3867.8	3837.1	3298.3
62.5°	1064.4	1090.7	1340.4	1640.8	2300.5	3120.5	3770.5	4099.0	4105.2	4021.9	3244.0
65°	802.5	820.0	1028.5	1286.0	1975.5	2957.5	3813.4	4252.3	4246.2	4075.4	3081.1
66°	719.2	734.1	918.1	1137.1	1806.4	2808.6	3755.6	4264.6	4258.5	4036.0	2974.2
67.5°	620.2	624.6	776.2	930.4	1511.2	2492.4	3579.5	4208.5	4213.8	3927.3	2778.8
70°	484.5	483.6	571.2	647.4	1032.0	1773.1	2985.6	3855.5	3880.9	3517.3	2369.7
72.5°	310.1	299.6	350.4	396.0	601.0	1029.4	2177.0	3142.4	3185.3	2763.1	1765.2
75°	184.8	174.3	186.6	198.0	288.2	495.0	1279.9	2138.4	2179.6	1771.4	1050.4
77.5°	138.4	134.0	134.9	125.3	127.9	185.7	584.3	1130.1	1159.9	725.4	398.6
80°	106.0	94.6	88.5	92.9	84.1	73.6	217.3	389.0	407.4	171.7	83.2
82.5°	71.0	61.3	56.9	62.2	53.4	41.2	52.6	75.3	73.6	46.4	32.4
85°	36.8	31.5	31.5	31.5	27.2	20.1	22.8	30.7	30.7	24.5	19.3
87.5°	10.5	9.6	11.4	10.5	7.9	7.9	8.8	10.5	10.5	9.6	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°	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3
2.5°	392.5	389.0	379.3	372.3	365.3	359.2	352.2	350.4	346.9	347.8	346.0
5°	395.1	385.5	368.8	353.0	340.8	330.3	317.1	311.9	304.9	302.2	300.5
7.5°	398.6	384.6	360.1	338.2	317.1	296.1	275.1	262.8	254.9	251.4	248.8
10°	406.5	388.1	355.7	321.5	285.6	255.8	234.8	226.0	220.8	219.9	219.0
12.5°	417.0	393.3	351.3	300.5	253.2	225.1	212.0	209.4	208.5	208.5	207.6
15°	432.8	402.1	344.3	276.0	227.8	208.5	202.4	198.0	196.2	196.2	196.2
17.5°	448.5	412.6	333.8	250.6	210.3	198.0	191.9	189.2	187.5	188.4	187.5
20°	468.7	424.9	319.8	228.6	198.9	189.2	183.1	180.5	179.6	179.6	179.6
22.5°	491.5	438.9	302.2	212.0	189.2	180.5	174.3	171.7	170.0	170.8	170.8
25°	522.1	456.4	283.8	195.4	179.6	171.7	164.7	161.2	161.2	162.1	162.9
27.5°	561.5	477.4	265.4	184.8	170.8	162.9	155.1	151.6	152.4	154.2	154.2
30°	619.4	506.4	247.0	173.5	161.2	152.4	145.4	141.9	143.7	147.2	147.2
32.5°	701.7	553.7	231.3	160.3	147.2	137.5	130.5	127.9	132.3	139.3	139.3
35°	848.9	640.4	221.6	147.2	132.3	120.9	112.1	109.5	115.6	124.4	124.4
37.5°	1046.0	779.7	225.1	135.8	120.0	106.9	97.2	93.7	98.1	106.0	108.6
40°	1265.9	947.9	255.8	126.2	108.6	95.5	85.9	82.3	85.0	88.5	89.4
42.5°	1485.8	1126.6	313.6	119.1	99.9	85.9	77.1	74.5	76.2	77.1	78.0
45°	1704.8	1303.6	386.3	114.8	92.0	78.0	69.2	69.2	70.1	70.1	70.1
47.5°	1912.4	1476.1	462.6	113.9	85.0	70.1	63.1	64.0	64.0	64.8	64.8
50°	2108.7	1630.3	539.6	116.5	78.8	63.1	57.8	57.8	57.8	58.7	57.8
52.5°	2272.5	1765.2	620.2	120.9	72.7	57.8	52.6	52.6	52.6	53.4	52.6
55°	2427.5	1887.9	702.6	127.0	67.5	53.4	48.2	46.4	46.4	47.3	46.4
57.5°	2553.7	1969.4	780.6	127.9	63.1	49.1	44.7	42.1	42.1	42.1	42.1
60°	2558.9	1922.1	803.3	112.1	57.8	44.7	40.3	36.8	37.7	37.7	37.7
62.5°	2391.6	1673.3	645.6	84.1	51.7	40.3	36.8	33.3	33.3	33.3	33.3
65°	2063.1	1301.8	378.5	66.6	44.7	35.9	32.4	29.8	29.8	29.8	28.9
66°	1908.9	1141.5	290.0	60.4	42.1	35.0	31.5	28.9	28.0	27.2	27.2
67.5°	1657.5	902.3	181.3	53.4	38.5	32.4	28.9	26.3	25.4	24.5	24.5
70°	1248.4	572.9	88.5	41.2	33.3	28.0	25.4	22.8	21.9	21.0	20.1
72.5°	876.0	335.5	46.4	31.5	27.2	24.5	21.9	19.3	18.4	17.5	17.5
75°	495.0	162.1	30.7	22.8	21.9	20.1	18.4	15.8	14.9	14.9	14.9
77.5°	187.5	56.1	21.0	16.6	17.5	15.8	13.1	13.1	12.3	13.1	12.3
80°	49.1	24.5	13.1	12.3	13.1	11.4	9.6	10.5	10.5	10.5	10.5
82.5°	26.3	14.0	7.9	8.8	7.9	7.9	6.1	7.0	7.9	7.0	7.9
85°	18.4	7.0	4.4	4.4	3.5	3.5	2.6	3.5	4.4	3.5	3.5
87.5°	9.6	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)