

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: P1211546

Luminaire Tested: **ARCH4-40-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211546
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: ARCH4-40-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5065 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

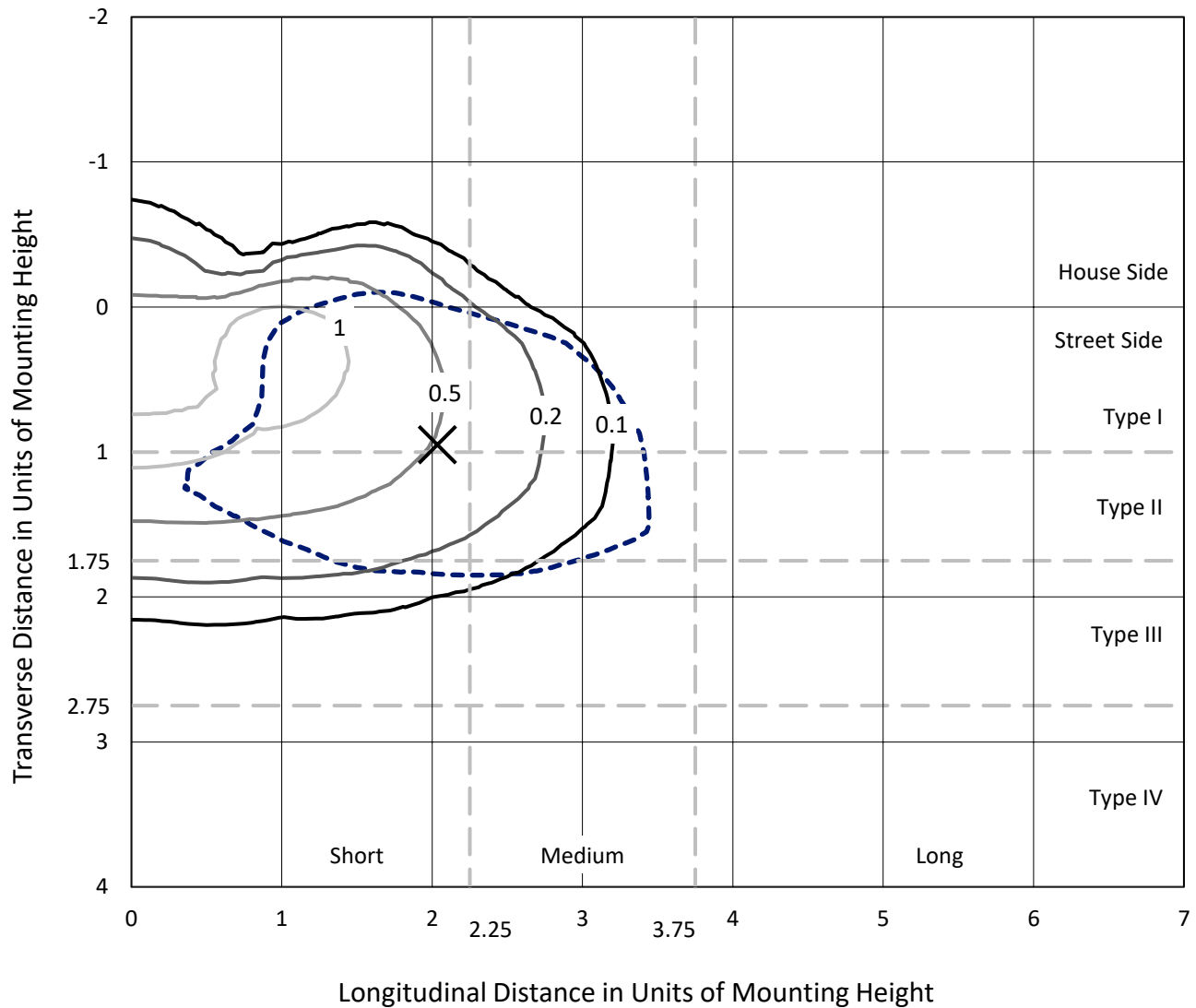
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

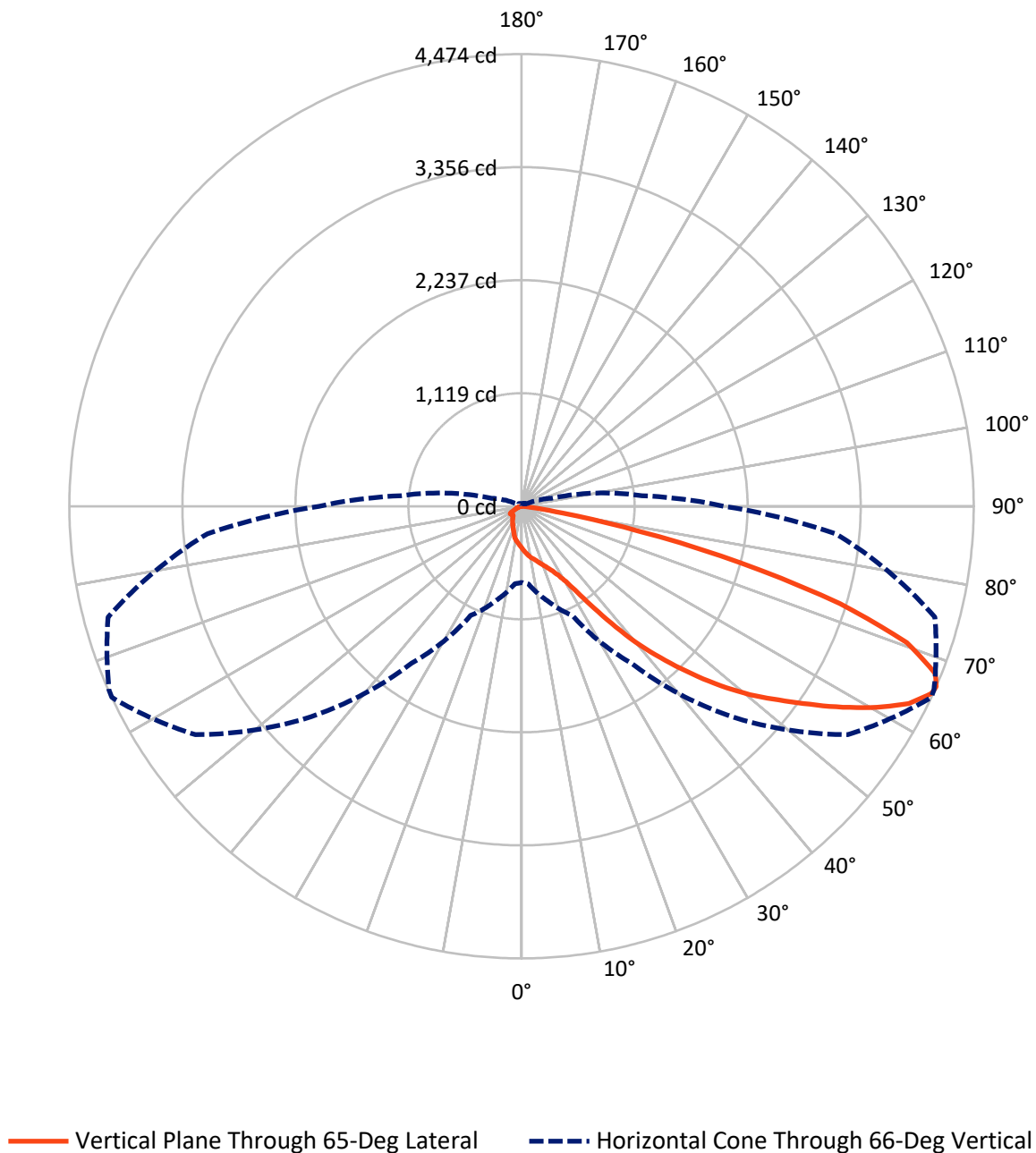
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	597.8	0.0	597.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4467.2	0.0	4467.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	5065.0	0.0	5065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	0.8
10°-20°	115.8	2.3
20°-30°	212.0	4.2
30°-40°	430.7	8.5
40°-50°	909.5	18.0
50°-60°	1398.3	27.6
60°-70°	1407.4	27.8
70°-80°	525.9	10.4
80°-90°	26.3	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°	5065.0	100.0
0°-180°	5065.0	100.0

Coefficient of Utilization



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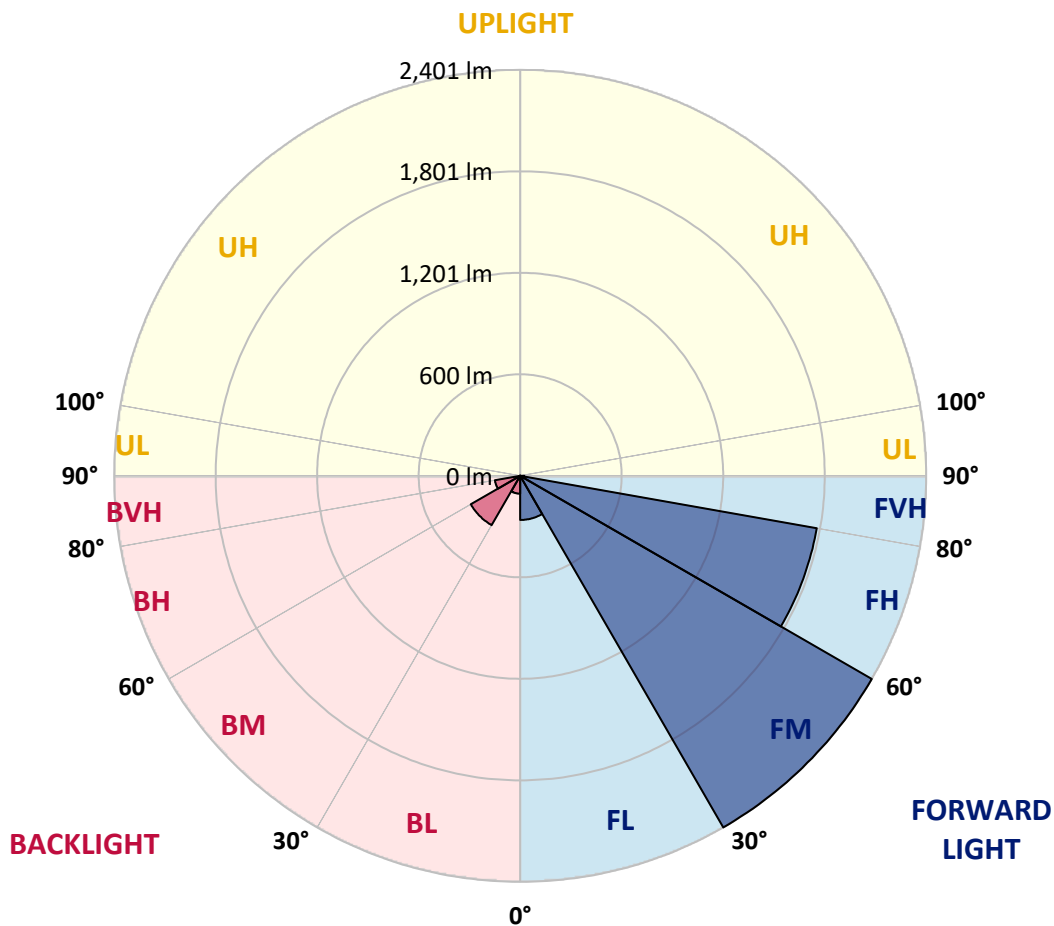
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.1	5.2			
FM	(30°-60°)	2401.5	47.4			
FH	(60°-80°)	1781.5	35.2			G1/1800
FVH	(80°-90°)	23.2	0.5			G1/100
BL	(0°-30°)	105.8	2.1	B0/110		
BM	(30°-60°)	337.0	6.7	B1/1000		
BH	(60°-80°)	151.9	3.0	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	470.6	471.5	469.6	466.0	462.3	457.7	450.3	438.4	436.6	428.3	419.1
5°	502.7	504.6	501.8	500.9	499.0	492.6	482.5	465.0	463.2	446.7	425.5
7.5°	513.8	516.5	514.7	514.7	514.7	511.9	507.3	491.7	488.9	467.8	435.6
10°	522.0	523.9	522.9	526.6	529.4	527.5	524.8	515.6	512.8	491.7	449.4
12.5°	534.9	535.8	536.7	538.6	543.2	545.0	544.1	535.8	534.0	519.3	466.9
15°	546.8	546.8	547.8	556.0	562.5	566.1	567.1	560.6	558.8	546.8	488.9
17.5°	557.9	558.8	561.5	570.7	581.8	589.1	593.7	591.0	588.2	579.0	514.7
20°	574.4	576.2	579.0	591.9	602.9	614.8	624.0	623.1	622.2	615.8	545.0
22.5°	602.9	604.7	609.3	621.3	632.3	647.0	662.6	661.7	659.0	654.4	580.8
25°	646.1	646.1	648.9	659.0	672.7	690.2	704.9	707.7	704.9	702.2	625.9
27.5°	700.3	701.2	701.2	712.3	725.1	747.2	765.6	768.3	768.3	765.6	686.5
30°	775.7	772.9	771.1	780.3	794.1	826.2	858.4	863.9	861.2	865.7	772.0
32.5°	905.3	900.7	885.0	886.9	895.2	939.3	993.5	1012.8	1011.9	1020.1	909.9
35°	1084.5	1075.3	1052.3	1033.0	1032.1	1079.9	1162.6	1235.2	1234.3	1262.8	1119.4
37.5°	1286.7	1298.6	1255.4	1222.3	1212.2	1249.9	1356.5	1513.7	1522.0	1571.6	1394.2
40°	1556.9	1564.2	1509.1	1462.2	1414.4	1428.2	1568.8	1813.3	1828.0	1883.1	1669.0
42.5°	1792.2	1799.5	1767.3	1710.4	1649.7	1624.0	1783.0	2085.3	2097.3	2173.6	1952.1
45°	1952.1	1957.6	1968.6	1974.1	1905.2	1851.9	2044.9	2364.7	2379.4	2467.7	2228.7
47.5°	2077.1	2081.7	2103.7	2158.9	2145.1	2102.8	2311.4	2655.1	2658.8	2757.2	2498.0
50°	2135.0	2146.0	2200.2	2284.8	2345.4	2357.4	2600.9	2929.9	2940.1	3033.8	2752.6
52.5°	2070.6	2074.3	2211.2	2370.2	2492.5	2613.8	2891.3	3184.5	3213.9	3283.8	2981.4
55°	1853.7	1880.4	2088.1	2367.5	2608.3	2857.3	3202.0	3459.3	3486.0	3530.1	3182.7
57.5°	1601.9	1631.3	1884.1	2248.9	2657.9	3082.5	3489.6	3751.6	3770.0	3781.9	3367.4
60°	1384.1	1411.7	1671.8	2021.9	2608.3	3241.5	3757.1	4042.0	4057.6	4025.5	3460.2
62.5°	1116.6	1144.2	1406.2	1721.4	2413.4	3273.7	3955.6	4300.3	4306.7	4219.4	3403.3
65°	841.9	860.2	1079.0	1349.2	2072.5	3102.7	4000.6	4461.1	4454.7	4275.4	3232.3
66°	754.5	770.2	963.2	1192.9	1895.1	2946.5	3940.0	4474.0	4467.5	4234.1	3120.2
67.5°	650.7	655.3	814.3	976.0	1585.4	2614.7	3755.3	4415.1	4420.6	4120.1	2915.2
70°	508.2	507.3	599.2	679.2	1082.6	1860.2	3132.1	4044.8	4071.4	3690.0	2486.0
72.5°	325.3	314.3	367.6	415.4	630.5	1079.9	2283.8	3296.6	3341.7	2898.7	1851.9
75°	193.9	182.9	195.8	207.7	302.4	519.3	1342.7	2243.4	2286.6	1858.3	1101.9
77.5°	145.2	140.6	141.5	131.4	134.2	194.8	613.0	1185.6	1216.8	761.0	418.2
80°	111.2	99.3	92.8	97.4	88.2	77.2	227.9	408.1	427.4	180.1	87.3
82.5°	74.4	64.3	59.7	65.3	56.1	43.2	55.1	79.0	77.2	48.7	34.0
85°	38.6	33.1	33.1	33.1	28.5	21.1	23.9	32.2	32.2	25.7	20.2
87.5°	11.0	10.1	11.9	11.0	8.3	8.3	9.2	11.0	11.0	10.1	9.2
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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	411.7	408.1	398.0	390.6	383.2	376.8	369.5	367.6	363.9	364.9	363.0
5°	414.5	404.4	386.9	370.4	357.5	346.5	332.7	327.2	319.8	317.1	315.2
7.5°	418.2	403.5	377.7	354.8	332.7	310.6	288.6	275.7	267.4	263.8	261.0
10°	426.4	407.1	373.1	337.3	299.6	268.4	246.3	237.1	231.6	230.7	229.8
12.5°	437.5	412.7	368.5	315.2	265.6	236.2	222.4	219.7	218.7	218.7	217.8
15°	454.0	421.8	361.2	289.5	239.0	218.7	212.3	207.7	205.9	205.9	205.9
17.5°	470.6	432.9	350.2	262.8	220.6	207.7	201.3	198.5	196.7	197.6	196.7
20°	491.7	445.7	335.5	239.9	208.6	198.5	192.1	189.3	188.4	188.4	188.4
22.5°	515.6	460.4	317.1	222.4	198.5	189.3	182.9	180.1	178.3	179.2	179.2
25°	547.8	478.8	297.8	204.9	188.4	180.1	172.8	169.1	169.1	170.0	170.9
27.5°	589.1	500.9	278.5	193.9	179.2	170.9	162.7	159.0	159.9	161.8	161.8
30°	649.8	531.2	259.2	182.0	169.1	159.9	152.6	148.9	150.7	154.4	154.4
32.5°	736.2	580.8	242.6	168.2	154.4	144.3	136.9	134.2	138.8	146.1	146.1
35°	890.6	671.8	232.5	154.4	138.8	126.8	117.6	114.9	121.3	130.5	130.5
37.5°	1097.3	818.0	236.2	142.5	125.9	112.1	102.0	98.3	102.9	111.2	114.0
40°	1328.0	994.4	268.4	132.3	114.0	100.2	90.1	86.4	89.1	92.8	93.7
42.5°	1558.7	1181.9	329.0	125.0	104.8	90.1	80.9	78.1	80.0	80.9	81.8
45°	1788.5	1367.6	405.3	120.4	96.5	81.8	72.6	72.6	73.5	73.5	73.5
47.5°	2006.3	1548.6	485.3	119.5	89.1	73.5	66.2	67.1	67.1	68.0	68.0
50°	2212.2	1710.4	566.1	122.2	82.7	66.2	60.7	60.7	60.7	61.6	60.7
52.5°	2384.0	1851.9	650.7	126.8	76.3	60.7	55.1	55.1	55.1	56.1	55.1
55°	2546.7	1980.6	737.1	133.3	70.8	56.1	50.5	48.7	48.7	49.6	48.7
57.5°	2679.0	2066.0	818.9	134.2	66.2	51.5	46.9	44.1	44.1	44.1	44.1
60°	2684.6	2016.4	842.8	117.6	60.7	46.9	42.3	38.6	39.5	39.5	39.5
62.5°	2509.0	1755.4	677.3	88.2	54.2	42.3	38.6	34.9	34.9	34.9	34.9
65°	2164.4	1365.7	397.0	69.8	46.9	37.7	34.0	31.2	31.2	31.2	30.3
66°	2002.6	1197.5	304.2	63.4	44.1	36.8	33.1	30.3	29.4	28.5	28.5
67.5°	1738.8	946.6	190.2	56.1	40.4	34.0	30.3	27.6	26.7	25.7	25.7
70°	1309.7	601.1	92.8	43.2	34.9	29.4	26.7	23.9	23.0	22.1	21.1
72.5°	919.1	352.0	48.7	33.1	28.5	25.7	23.0	20.2	19.3	18.4	18.4
75°	519.3	170.0	32.2	23.9	23.0	21.1	19.3	16.5	15.6	15.6	15.6
77.5°	196.7	58.8	22.1	17.5	18.4	16.5	13.8	13.8	12.9	13.8	12.9
80°	51.5	25.7	13.8	12.9	13.8	11.9	10.1	11.0	11.0	11.0	11.0
82.5°	27.6	14.7	8.3	9.2	8.3	8.3	6.4	7.4	8.3	7.4	8.3
85°	19.3	7.4	4.6	4.6	3.7	3.7	2.8	3.7	4.6	3.7	3.7
87.5°	10.1	2.8	2.8	2.8	2.8	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)