

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: P1210902

Luminaire Tested: **ARCH4-110-722-U-T3RE-HSS**

Issue Date: 11/5/2025

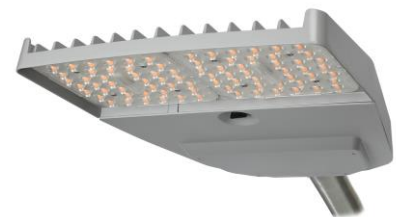
Test Information

Test Method: LM-79-08
Report Number: P1210902
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: ARCH4-110-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA 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: 11477 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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

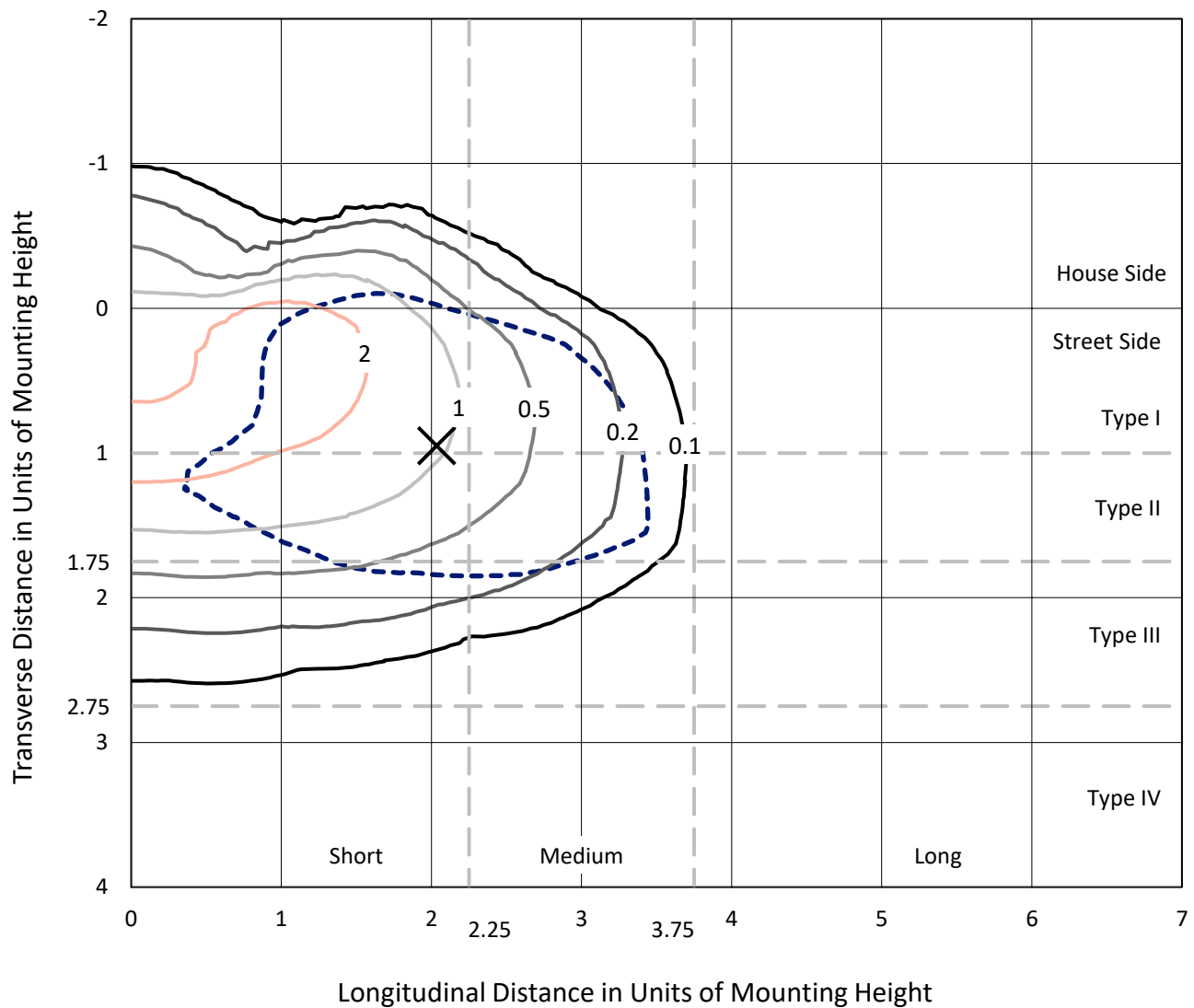


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Iso-Footcandle Lines of Horizontal Illumination

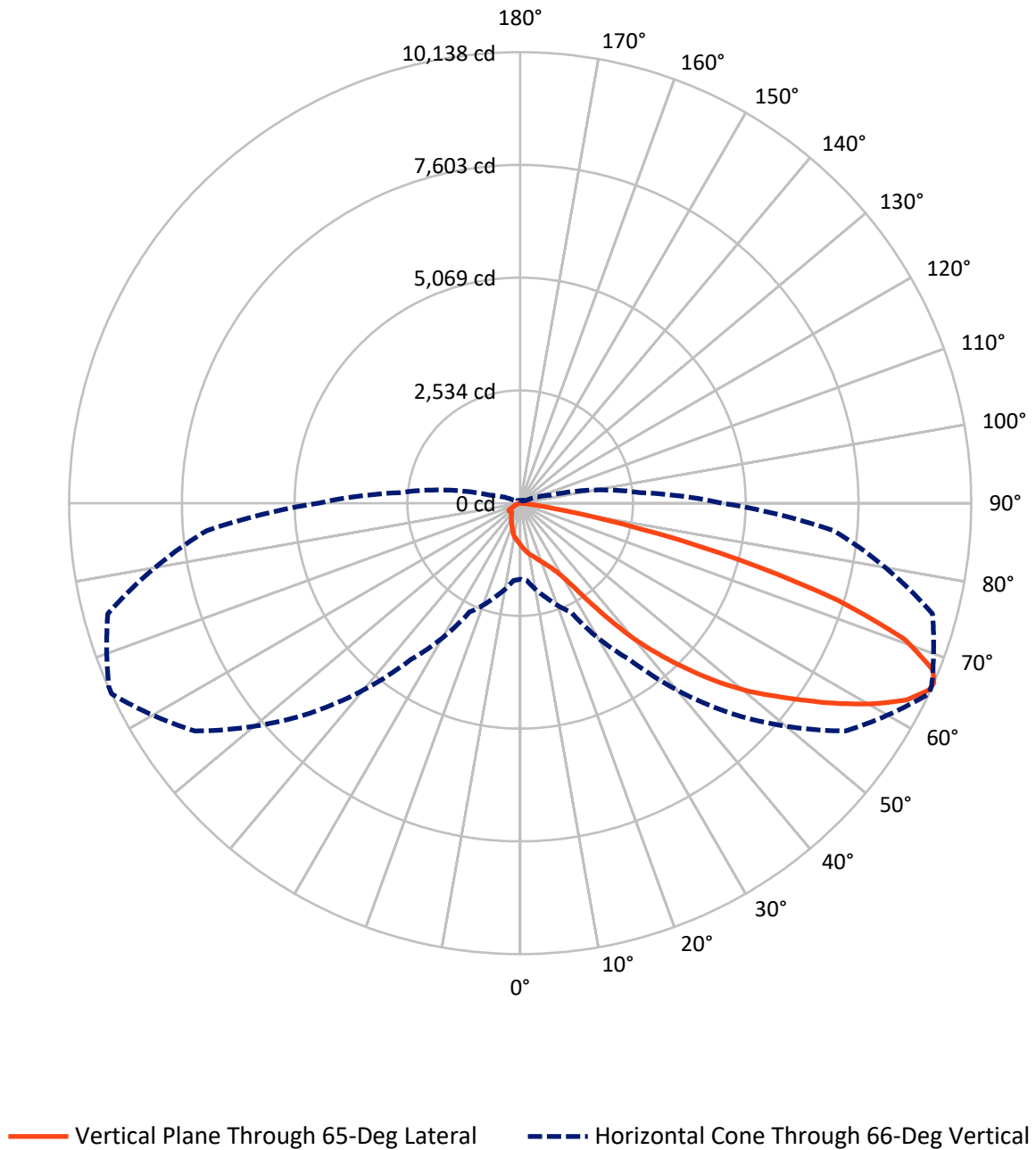
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1354.5	0.0	1354.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10122.5	0.0	10122.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	11477.0	0.0	11477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	0.8
10°-20°	262.4	2.3
20°-30°	480.3	4.2
30°-40°	976.0	8.5
40°-50°	2061.0	18.0
50°-60°	3168.4	27.6
60°-70°	3189.2	27.8
70°-80°	1191.6	10.4
80°-90°	59.5	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°	11477.0	100.0
0°-180°	11477.0	100.0

Coefficient of Utilization



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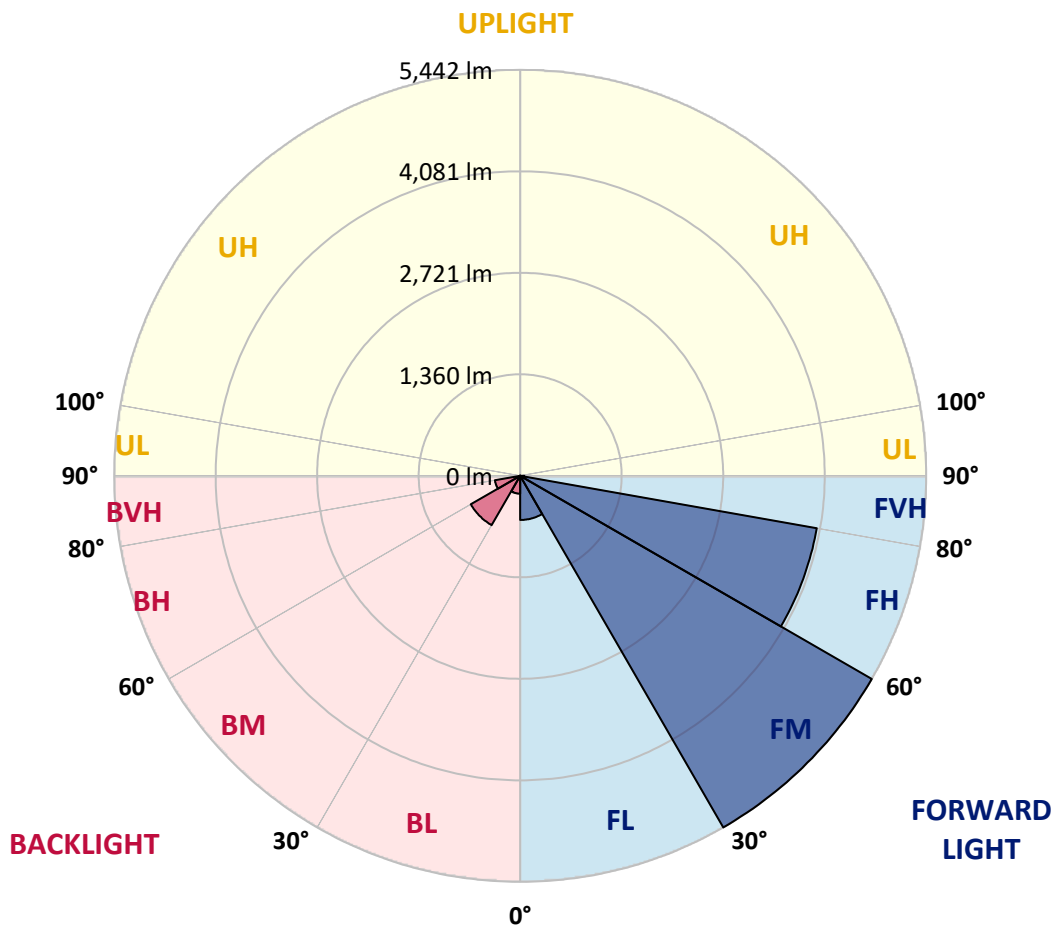
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.6	5.2			
FM	(30°-60°)	5441.6	47.4			
FH	(60°-80°)	4036.7	35.2			G2/5000
FVH	(80°-90°)	52.5	0.5			G1/100
BL	(0°-30°)	239.7	2.1	B1/500		
BM	(30°-60°)	763.7	6.7	B1/1000		
BH	(60°-80°)	344.1	3.0	B1/500		G1/500
BVH	(80°-90°)	7.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1
2.5°	1066.3	1068.3	1064.2	1055.8	1047.5	1037.1	1020.4	993.4	989.2	970.5	949.6
5°	1139.1	1143.3	1137.1	1135.0	1130.8	1116.2	1093.3	1053.8	1049.6	1012.1	964.2
7.5°	1164.1	1170.4	1166.2	1166.2	1166.2	1160.0	1149.6	1114.1	1107.9	1060.0	987.1
10°	1182.9	1187.0	1185.0	1193.3	1199.5	1195.4	1189.1	1168.3	1162.0	1114.1	1018.4
12.5°	1212.0	1214.1	1216.2	1220.4	1230.8	1234.9	1232.9	1214.1	1209.9	1176.6	1057.9
15°	1239.1	1239.1	1241.2	1259.9	1274.5	1282.8	1284.9	1270.3	1266.2	1239.1	1107.9
17.5°	1264.1	1266.2	1272.4	1293.2	1318.2	1334.9	1345.3	1339.1	1332.8	1312.0	1166.2
20°	1301.6	1305.7	1312.0	1341.1	1366.1	1393.2	1414.0	1412.0	1409.9	1395.3	1234.9
22.5°	1366.1	1370.3	1380.7	1407.8	1432.8	1466.1	1501.5	1499.4	1493.2	1482.8	1316.2
25°	1464.0	1464.0	1470.3	1493.2	1524.4	1564.0	1597.3	1603.5	1597.3	1591.0	1418.2
27.5°	1586.9	1589.0	1589.0	1614.0	1643.1	1693.1	1734.7	1741.0	1741.0	1734.7	1555.6
30°	1757.6	1751.4	1747.2	1768.1	1799.3	1872.2	1945.1	1957.6	1951.3	1961.7	1749.3
32.5°	2051.3	2040.9	2005.5	2009.6	2028.4	2128.3	2251.2	2294.9	2292.9	2311.6	2061.7
35°	2457.4	2436.6	2384.5	2340.8	2338.7	2447.0	2634.4	2798.9	2796.8	2861.4	2536.5
37.5°	2915.5	2942.6	2844.7	2769.8	2746.8	2832.2	3073.8	3429.9	3448.7	3561.1	3159.2
40°	3527.8	3544.5	3419.5	3313.3	3205.0	3236.2	3554.9	4108.8	4142.1	4267.1	3781.9
42.5°	4060.9	4077.6	4004.7	3875.6	3738.1	3679.8	4040.1	4725.2	4752.3	4925.2	4423.3
45°	4423.3	4435.8	4460.8	4473.3	4317.1	4196.3	4633.6	5358.3	5391.7	5591.6	5050.1
47.5°	4706.5	4716.9	4766.9	4891.8	4860.6	4764.8	5237.5	6016.4	6024.7	6247.6	5660.3
50°	4837.7	4862.7	4985.6	5177.2	5314.6	5341.7	5893.5	6639.1	6662.0	6874.4	6237.2
52.5°	4691.9	4700.3	5010.5	5370.8	5647.8	5922.7	6551.6	7215.9	7282.6	7440.9	6755.7
55°	4200.4	4260.8	4731.5	5364.6	5910.2	6474.6	7255.5	7838.6	7899.0	7999.0	7211.8
57.5°	3629.8	3696.5	4269.2	5095.9	6022.7	6984.8	7907.3	8500.9	8542.5	8569.6	7630.4
60°	3136.3	3198.8	3788.1	4581.5	5910.2	7345.1	8513.4	9158.9	9194.3	9121.4	7840.7
62.5°	2530.3	2592.7	3186.3	3900.6	5468.7	7417.9	8963.2	9744.1	9758.7	9560.9	7711.6
65°	1907.6	1949.2	2444.9	3057.1	4696.1	7030.6	9065.2	10108.6	10094.0	9687.9	7324.2
66°	1709.8	1745.2	2182.5	2703.1	4294.2	6676.6	8927.8	10137.7	10123.1	9594.2	7070.2
67.5°	1474.4	1484.8	1845.1	2211.6	3592.4	5924.8	8509.2	10004.4	10016.9	9335.9	6605.8
70°	1151.6	1149.6	1357.8	1539.0	2453.2	4215.0	7097.2	9165.2	9225.6	8361.3	5633.2
72.5°	737.2	712.2	833.0	941.3	1428.6	2447.0	5175.1	7470.0	7572.1	6568.3	4196.3
75°	439.4	414.4	443.6	470.7	685.1	1176.6	3042.6	5083.4	5181.3	4210.9	2496.9
77.5°	329.0	318.6	320.7	297.8	304.0	441.5	1389.0	2686.5	2757.3	1724.3	947.5
80°	252.0	224.9	210.3	220.7	199.9	174.9	516.5	924.6	968.4	408.2	197.8
82.5°	168.7	145.8	135.4	147.9	127.0	97.9	125.0	179.1	174.9	110.4	77.1
85°	87.5	75.0	75.0	75.0	64.6	47.9	54.1	72.9	72.9	58.3	45.8
87.5°	25.0	22.9	27.1	25.0	18.7	18.7	20.8	25.0	25.0	22.9	20.8
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°	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1	935.1
2.5°	933.0	924.6	901.7	885.1	868.4	853.8	837.2	833.0	824.7	826.8	822.6
5°	939.2	916.3	876.7	839.3	810.1	785.1	753.9	741.4	724.7	718.5	714.3
7.5°	947.5	914.2	855.9	803.9	753.9	703.9	653.9	624.8	606.0	597.7	591.4
10°	966.3	922.6	845.5	764.3	678.9	608.1	558.1	537.3	524.8	522.7	520.6
12.5°	991.3	935.1	835.1	714.3	601.8	535.2	504.0	497.7	495.6	495.6	493.6
15°	1028.8	955.9	818.4	656.0	541.5	495.6	481.1	470.7	466.5	466.5	466.5
17.5°	1066.3	980.9	793.4	595.6	499.8	470.7	456.1	449.8	445.7	447.7	445.7
20°	1114.1	1010.0	760.1	543.5	472.7	449.8	435.2	429.0	426.9	426.9	426.9
22.5°	1168.3	1043.3	718.5	504.0	449.8	429.0	414.4	408.2	404.0	406.1	406.1
25°	1241.2	1085.0	674.7	464.4	426.9	408.2	391.5	383.2	383.2	385.3	387.3
27.5°	1334.9	1135.0	631.0	439.4	406.1	387.3	368.6	360.3	362.4	366.5	366.5
30°	1472.3	1203.7	587.3	412.3	383.2	362.4	345.7	337.4	341.5	349.9	349.9
32.5°	1668.1	1316.2	549.8	381.1	349.9	327.0	310.3	304.0	314.5	331.1	331.1
35°	2018.0	1522.3	526.9	349.9	314.5	287.4	266.6	260.3	274.9	295.7	295.7
37.5°	2486.5	1853.4	535.2	322.8	285.3	254.1	231.2	222.8	233.2	252.0	258.2
40°	3009.2	2253.3	608.1	299.9	258.2	227.0	204.1	195.8	202.0	210.3	212.4
42.5°	3532.0	2678.1	745.5	283.2	237.4	204.1	183.3	177.0	181.2	183.3	185.3
45°	4052.6	3098.8	918.4	272.8	218.7	185.3	164.5	164.5	166.6	166.6	166.6
47.5°	4546.1	3509.1	1099.6	270.7	202.0	166.6	149.9	152.0	152.0	154.1	154.1
50°	5012.6	3875.6	1282.8	277.0	187.4	149.9	137.4	137.4	137.4	139.5	137.4
52.5°	5402.1	4196.3	1474.4	287.4	172.8	137.4	125.0	125.0	125.0	127.0	125.0
55°	5770.7	4487.8	1670.2	302.0	160.4	127.0	114.5	110.4	110.4	112.5	110.4
57.5°	6070.6	4681.5	1855.5	304.0	149.9	116.6	106.2	100.0	100.0	100.0	100.0
60°	6083.0	4569.1	1909.7	266.6	137.4	106.2	95.8	87.5	89.5	89.5	89.5
62.5°	5685.3	3977.6	1534.8	199.9	122.9	95.8	87.5	79.1	79.1	79.1	79.1
65°	4904.3	3094.6	899.6	158.3	106.2	85.4	77.1	70.8	70.8	70.8	68.7
66°	4537.8	2713.5	689.3	143.7	100.0	83.3	75.0	68.7	66.6	64.6	64.6
67.5°	3940.1	2145.0	431.1	127.0	91.6	77.1	68.7	62.5	60.4	58.3	58.3
70°	2967.6	1362.0	210.3	97.9	79.1	66.6	60.4	54.1	52.1	50.0	47.9
72.5°	2082.5	797.6	110.4	75.0	64.6	58.3	52.1	45.8	43.7	41.7	41.7
75°	1176.6	385.3	72.9	54.1	52.1	47.9	43.7	37.5	35.4	35.4	35.4
77.5°	445.7	133.3	50.0	39.6	41.7	37.5	31.2	31.2	29.2	31.2	29.2
80°	116.6	58.3	31.2	29.2	31.2	27.1	22.9	25.0	25.0	25.0	25.0
82.5°	62.5	33.3	18.7	20.8	18.7	18.7	14.6	16.7	18.7	16.7	18.7
85°	43.7	16.7	10.4	10.4	8.3	8.3	6.2	8.3	10.4	8.3	8.3
87.5°	22.9	6.2	6.2	6.2	6.2	4.2	2.1	0.0	2.1	2.1	2.1
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)