

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: P1211242

Luminaire Tested: **ARCH4-210-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211242
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: ARCH4-210-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA 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: 23384 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 213.1
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



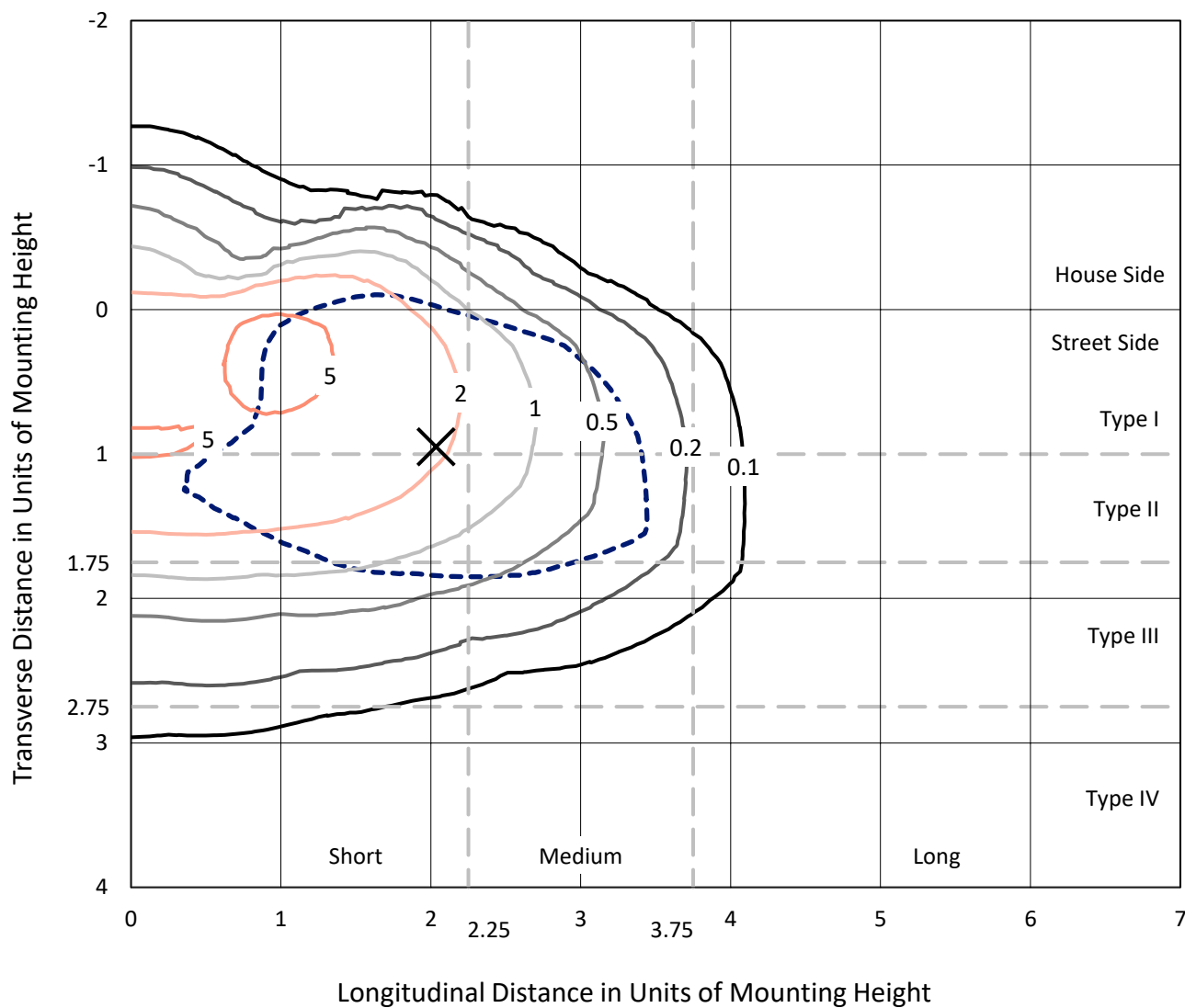
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

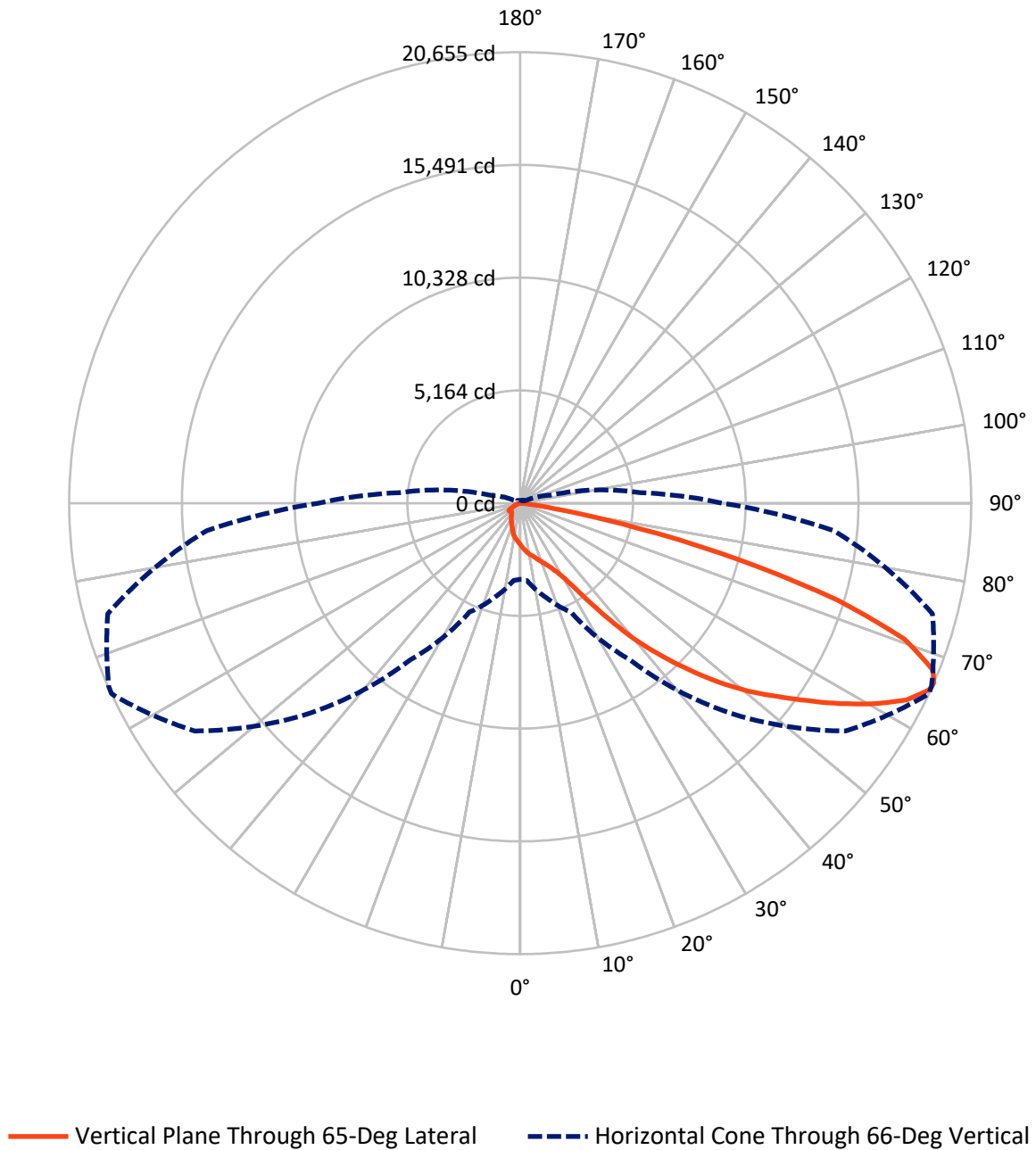
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2759.8	0.0	2759.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20624.2	0.0	20624.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	23384.0	0.0	23384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	0.8
10°-20°	534.7	2.3
20°-30°	978.6	4.2
30°-40°	1988.5	8.5
40°-50°	4199.1	18.0
50°-60°	6455.4	27.6
60°-70°	6497.8	27.8
70°-80°	2427.9	10.4
80°-90°	121.3	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°	23384.0	100.0
0°-180°	23384.0	100.0

Coefficient of Utilization



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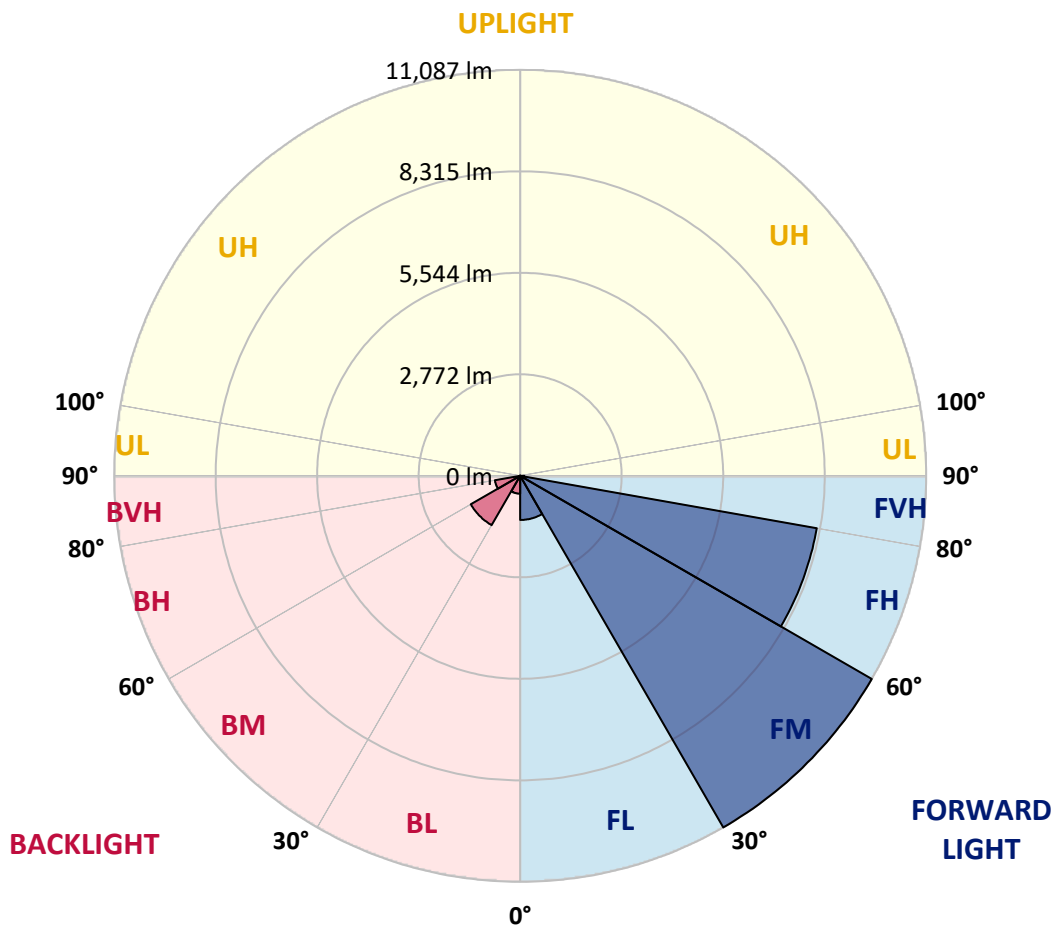
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.4	5.2			
FM	(30°-60°)	11087.1	47.4			
FH	(60°-80°)	8224.7	35.2			G4/12000
FVH	(80°-90°)	107.0	0.5			G2/225
BL	(0°-30°)	488.5	2.1	B1/500		
BM	(30°-60°)	1556.0	6.7	B2/2500		
BH	(60°-80°)	701.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1
2.5°	2172.5	2176.7	2168.2	2151.2	2134.3	2113.0	2079.1	2023.9	2015.5	1977.3	1934.8
5°	2321.0	2329.4	2316.7	2312.5	2304.0	2274.3	2227.6	2147.0	2138.5	2062.1	1964.5
7.5°	2371.9	2384.6	2376.1	2376.1	2376.1	2363.4	2342.2	2270.0	2257.3	2159.7	2011.2
10°	2410.1	2418.5	2414.3	2431.3	2444.0	2435.5	2422.8	2380.4	2367.6	2270.0	2074.9
12.5°	2469.5	2473.7	2478.0	2486.4	2507.7	2516.1	2511.9	2473.7	2465.2	2397.3	2155.5
15°	2524.6	2524.6	2528.9	2567.1	2596.8	2613.7	2618.0	2588.3	2579.8	2524.6	2257.3
17.5°	2575.5	2579.8	2592.5	2634.9	2685.9	2719.8	2741.0	2728.3	2715.6	2673.1	2376.1
20°	2651.9	2660.4	2673.1	2732.5	2783.5	2838.6	2881.0	2876.8	2872.6	2842.9	2516.1
22.5°	2783.5	2791.9	2813.2	2868.3	2919.2	2987.1	3059.3	3055.0	3042.3	3021.1	2681.6
25°	2982.9	2982.9	2995.6	3042.3	3105.9	3186.5	3254.4	3267.2	3254.4	3241.7	2889.5
27.5°	3233.2	3237.5	3237.5	3288.4	3347.8	3449.6	3534.5	3547.2	3547.2	3534.5	3169.6
30°	3581.2	3568.4	3559.9	3602.4	3666.0	3814.5	3963.0	3988.5	3975.8	3997.0	3564.2
32.5°	4179.4	4158.2	4086.1	4094.6	4132.7	4336.4	4586.8	4675.9	4671.6	4709.8	4200.6
35°	5006.8	4964.4	4858.3	4769.2	4765.0	4985.6	5367.5	5702.7	5698.4	5830.0	5168.1
37.5°	5940.3	5995.5	5796.0	5643.3	5596.6	5770.6	6262.8	6988.3	7026.5	7255.6	6436.7
40°	7187.8	7221.7	6967.1	6750.7	6530.1	6593.7	7242.9	8371.6	8439.5	8694.0	7705.4
42.5°	8274.0	8307.9	8159.4	7896.4	7616.3	7497.5	8231.6	9627.5	9682.7	10034.9	9012.3
45°	9012.3	9037.7	9088.7	9114.1	8795.9	8549.8	9440.8	10917.4	10985.3	11392.6	10289.4
47.5°	9589.3	9610.6	9712.4	9967.0	9903.3	9708.1	10671.3	12258.2	12275.2	12729.2	11532.7
50°	9856.6	9907.6	10157.9	10548.3	10828.3	10883.5	12007.9	13526.9	13573.6	14006.4	12708.0
52.5°	9559.6	9576.6	10208.8	10942.9	11507.2	12067.3	13348.7	14702.2	14838.0	15160.5	13764.5
55°	8558.3	8681.3	9640.3	10930.1	12041.8	13191.7	14782.9	15970.9	16094.0	16297.6	14693.7
57.5°	7395.7	7531.4	8698.3	10382.8	12271.0	14231.3	16110.9	17320.2	17405.1	17460.2	15546.6
60°	6390.1	6517.4	7718.1	9334.8	12041.8	14965.3	17345.7	18661.0	18733.2	18584.6	15975.2
62.5°	5155.3	5282.6	6491.9	7947.3	11142.3	15113.8	18262.2	19853.3	19883.0	19479.9	15712.1
65°	3886.7	3971.5	4981.4	6228.8	9568.1	14324.6	18470.1	20595.9	20566.2	19738.8	14922.9
66°	3483.6	3555.7	4446.7	5507.5	8749.2	13603.3	18190.0	20655.3	20625.6	19547.8	14405.2
67.5°	3004.1	3025.3	3759.4	4506.1	7319.3	12071.5	17337.2	20383.7	20409.2	19021.7	13459.0
70°	2346.4	2342.2	2766.5	3135.6	4998.3	8588.0	14460.4	18673.7	18796.8	17035.9	11477.5
72.5°	1502.0	1451.1	1697.2	1917.9	2910.7	4985.6	10544.0	15219.9	15427.8	13382.6	8549.8
75°	895.3	844.4	903.8	958.9	1396.0	2397.3	6199.1	10357.3	10556.8	8579.5	5087.4
77.5°	670.4	649.2	653.4	606.8	619.5	899.5	2830.1	5473.6	5617.8	3513.3	1930.6
80°	513.4	458.3	428.5	449.8	407.3	356.4	1052.3	1883.9	1973.0	831.6	403.1
82.5°	343.7	297.0	275.8	301.3	258.8	199.4	254.6	364.9	356.4	224.9	157.0
85°	178.2	152.8	152.8	152.8	131.5	97.6	110.3	148.5	148.5	118.8	93.3
87.5°	50.9	46.7	55.2	50.9	38.2	38.2	42.4	50.9	50.9	46.7	42.4
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°	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1	1905.1
2.5°	1900.9	1883.9	1837.2	1803.3	1769.4	1739.7	1705.7	1697.2	1680.3	1684.5	1676.0
5°	1913.6	1867.0	1786.3	1710.0	1650.6	1599.6	1536.0	1510.5	1476.6	1463.9	1455.4
7.5°	1930.6	1862.7	1743.9	1637.8	1536.0	1434.2	1332.3	1272.9	1234.7	1217.8	1205.0
10°	1968.8	1879.7	1722.7	1557.2	1383.2	1239.0	1137.1	1094.7	1069.3	1065.0	1060.8
12.5°	2019.7	1905.1	1701.5	1455.4	1226.2	1090.5	1026.8	1014.1	1009.9	1009.9	1005.6
15°	2096.1	1947.6	1667.5	1336.6	1103.2	1009.9	980.1	958.9	950.4	950.4	950.4
17.5°	2172.5	1998.5	1616.6	1213.5	1018.3	958.9	929.2	916.5	908.0	912.3	908.0
20°	2270.0	2057.9	1548.7	1107.4	963.2	916.5	886.8	874.1	869.8	869.8	869.8
22.5°	2380.4	2125.8	1463.9	1026.8	916.5	874.1	844.4	831.6	823.2	827.4	827.4
25°	2528.9	2210.6	1374.8	946.2	869.8	831.6	797.7	780.7	780.7	785.0	789.2
27.5°	2719.8	2312.5	1285.6	895.3	827.4	789.2	751.0	734.1	738.3	746.8	746.8
30°	2999.8	2452.5	1196.5	840.1	780.7	738.3	704.3	687.4	695.9	712.8	712.8
32.5°	3398.7	2681.6	1120.2	776.5	712.8	666.2	632.2	619.5	640.7	674.6	674.6
35°	4111.5	3101.7	1073.5	712.8	640.7	585.5	543.1	530.4	560.1	602.5	602.5
37.5°	5066.2	3776.3	1090.5	657.7	581.3	517.7	471.0	454.0	475.2	513.4	526.1
40°	6131.2	4591.0	1239.0	611.0	526.1	462.5	415.8	398.8	411.6	428.5	432.8
42.5°	7196.2	5456.6	1519.0	577.1	483.7	415.8	373.4	360.7	369.1	373.4	377.6
45°	8257.0	6313.7	1871.2	555.8	445.5	377.6	335.2	335.2	339.4	339.4	339.4
47.5°	9262.6	7149.6	2240.3	551.6	411.6	339.4	305.5	309.7	309.7	314.0	314.0
50°	10213.1	7896.4	2613.7	564.3	381.9	305.5	280.0	280.0	280.0	284.3	280.0
52.5°	11006.5	8549.8	3004.1	585.5	352.2	280.0	254.6	254.6	254.6	258.8	254.6
55°	11757.5	9143.8	3402.9	615.2	326.7	258.8	233.4	224.9	224.9	229.1	224.9
57.5°	12368.5	9538.4	3780.6	619.5	305.5	237.6	216.4	203.7	203.7	203.7	203.7
60°	12394.0	9309.3	3890.9	543.1	280.0	216.4	195.2	178.2	182.5	182.5	182.5
62.5°	11583.6	8104.3	3127.1	407.3	250.3	195.2	178.2	161.2	161.2	161.2	161.2
65°	9992.4	6305.2	1833.0	322.5	216.4	174.0	157.0	144.3	144.3	144.3	140.0
66°	9245.6	5528.7	1404.5	292.8	203.7	169.7	152.8	140.0	135.8	131.5	131.5
67.5°	8027.9	4370.4	878.3	258.8	186.7	157.0	140.0	127.3	123.0	118.8	118.8
70°	6046.4	2775.0	428.5	199.4	161.2	135.8	123.0	110.3	106.1	101.8	97.6
72.5°	4243.1	1625.1	224.9	152.8	131.5	118.8	106.1	93.3	89.1	84.9	84.9
75°	2397.3	785.0	148.5	110.3	106.1	97.6	89.1	76.4	72.1	72.1	72.1
77.5°	908.0	271.6	101.8	80.6	84.9	76.4	63.6	63.6	59.4	63.6	59.4
80°	237.6	118.8	63.6	59.4	63.6	55.2	46.7	50.9	50.9	50.9	50.9
82.5°	127.3	67.9	38.2	42.4	38.2	38.2	29.7	33.9	38.2	33.9	38.2
85°	89.1	33.9	21.2	21.2	17.0	17.0	12.7	17.0	21.2	17.0	17.0
87.5°	46.7	12.7	12.7	12.7	12.7	8.5	4.2	0.0	4.2	4.2	4.2
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)