

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: P842024

Luminaire Tested: **ARCH4-260-727-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25220 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 259.2
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



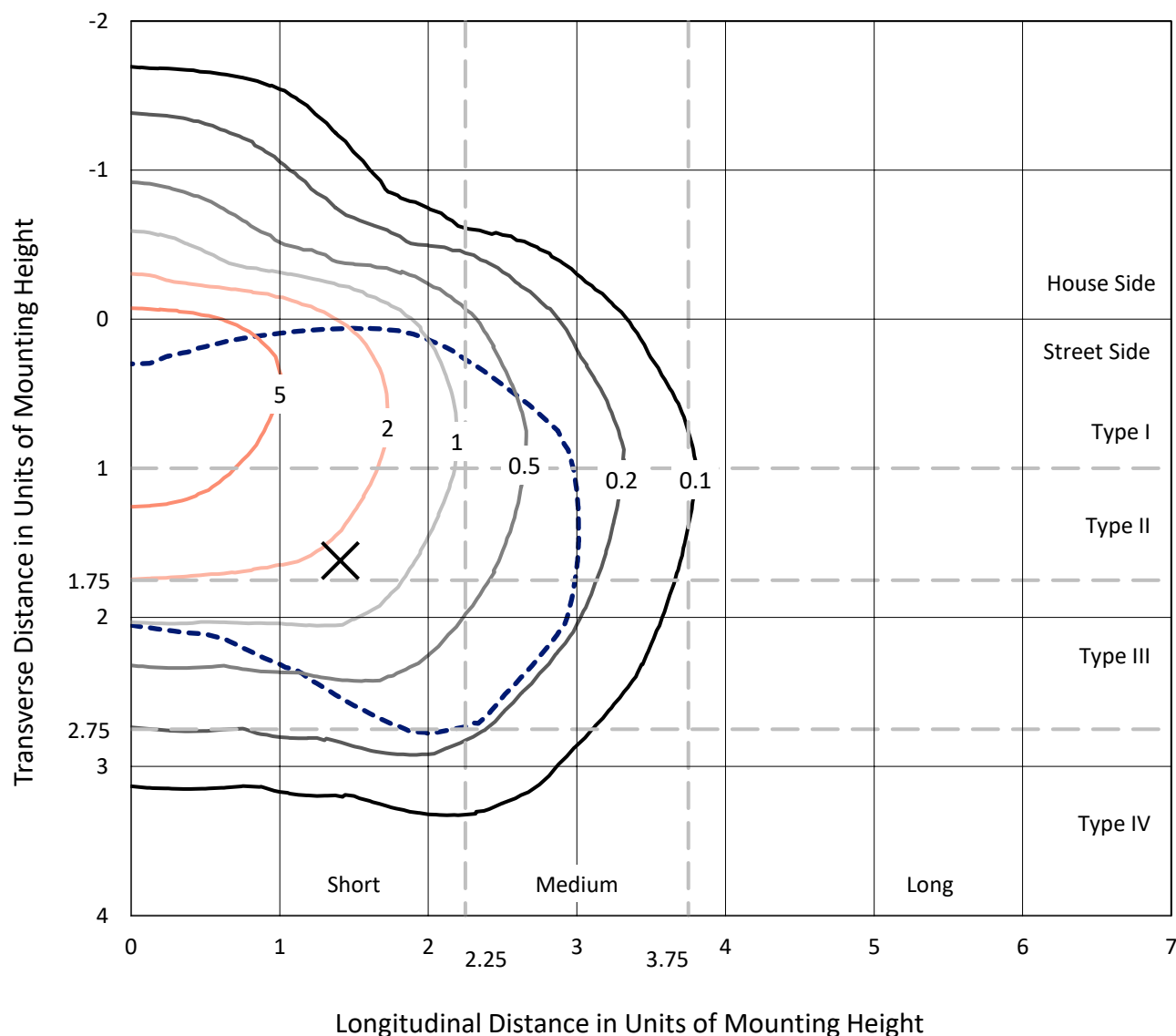
REPORT NUMBER: P842024

CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

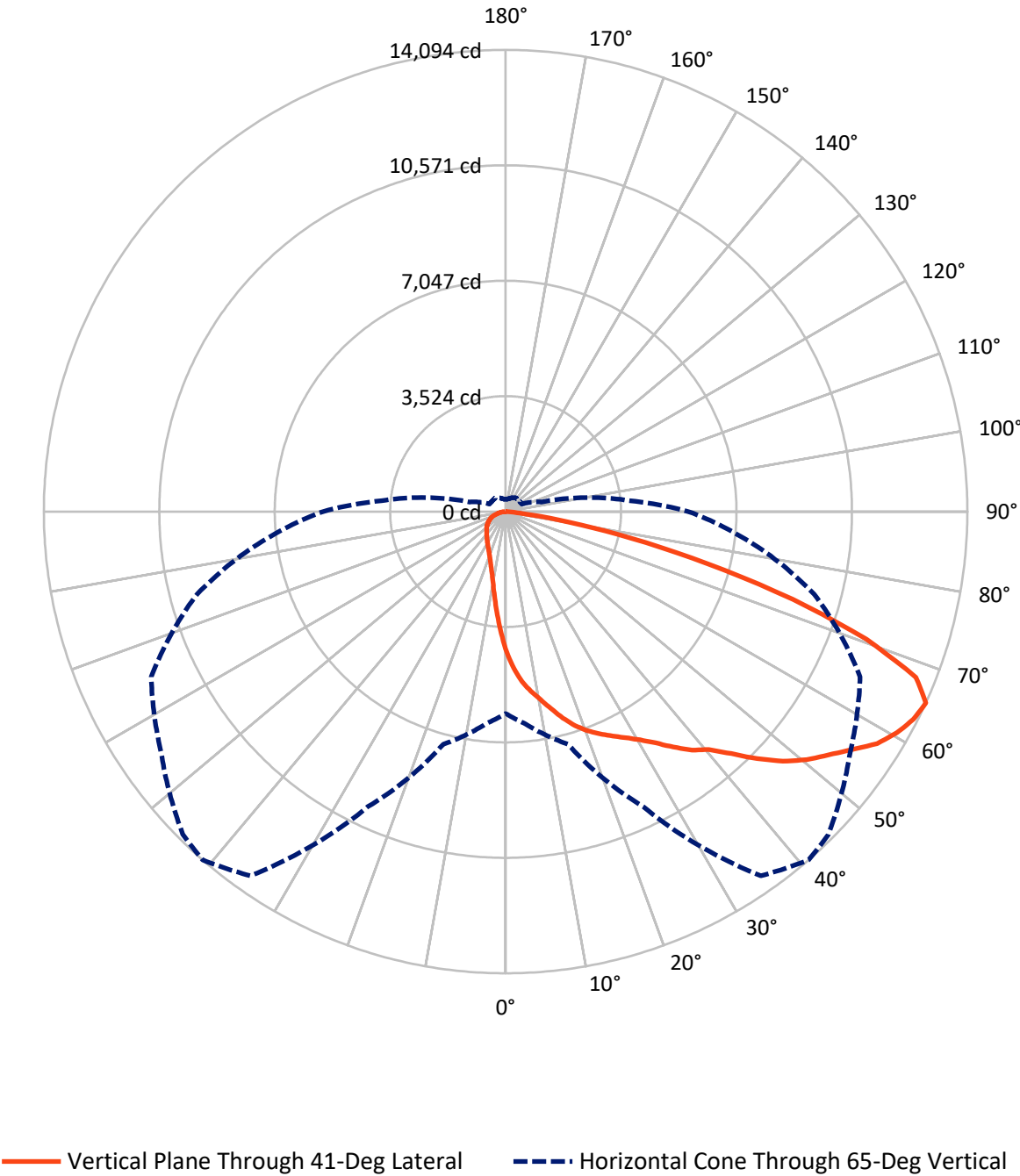


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type III - Short - N/A

REPORT NUMBER: P842024
CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842024

CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3237.9	0.0	3237.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	21982.1	0.0	21982.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	25220.0	0.0	25220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.4	1.6
10°-20°	1200.6	4.8
20°-30°	2065.5	8.2
30°-40°	3132.7	12.4
40°-50°	4589.5	18.2
50°-60°	5795.5	23.0
60°-70°	5434.3	21.5
70°-80°	2422.1	9.6
80°-90°	179.4	0.7
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°	25220.0	100.0
0°-180°	25220.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842024

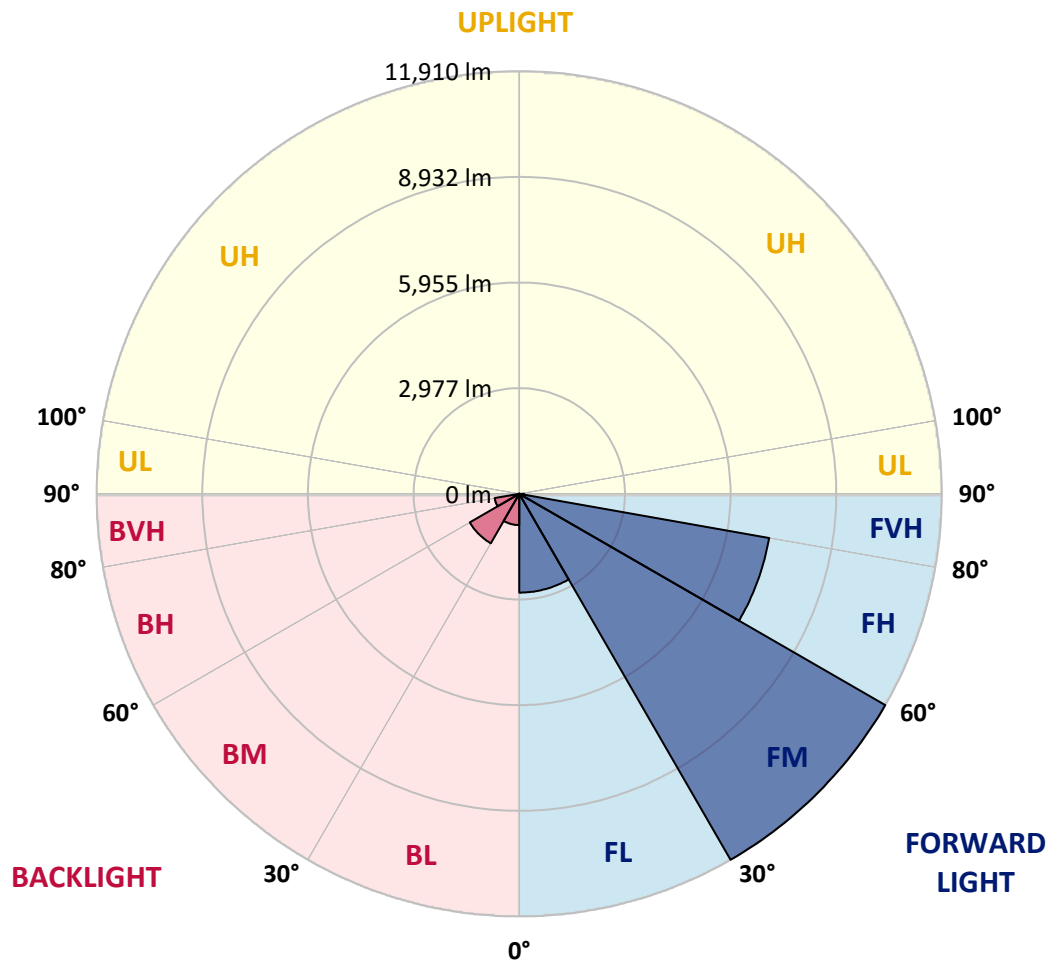
CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2785.2	11.0			
FM	(30°-60°)	11909.9	47.2			
FH	(60°-80°)	7153.0	28.4			G3/7500
FVH	(80°-90°)	134.0	0.5			G2/225
BL	(0°-30°)	881.3	3.5	B2/1000		
BM	(30°-60°)	1607.8	6.4	B2/2500		
BH	(60°-80°)	703.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	45.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P842024

CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4
2.5°	4956.9	4940.9	4930.3	4871.8	4871.8	4792.0	4797.3	4722.8	4632.4	4488.8	4334.6
5°	5424.9	5403.6	5377.0	5318.5	5297.2	5217.5	5206.8	5100.5	4946.2	4696.2	4419.7
7.5°	5834.4	5813.1	5775.9	5690.8	5632.3	5536.6	5510.0	5371.7	5201.5	4893.0	4504.8
10°	6206.7	6190.7	6142.9	6036.5	5956.7	5839.7	5791.9	5605.7	5393.0	5052.6	4573.9
12.5°	6584.3	6563.0	6499.2	6408.8	6313.1	6174.8	6116.3	5877.0	5605.7	5228.1	4675.0
15°	6935.3	6903.4	6855.6	6759.8	6674.7	6541.8	6477.9	6196.1	5866.3	5424.9	4807.9
17.5°	7164.0	7137.4	7094.9	7041.7	6972.6	6871.5	6807.7	6531.1	6126.9	5616.3	4946.2
20°	7302.3	7291.7	7275.7	7243.8	7211.9	7142.8	7094.9	6834.3	6408.8	5802.5	5079.2
22.5°	7408.7	7398.0	7392.7	7392.7	7398.0	7371.5	7339.5	7116.2	6680.0	5999.3	5201.5
25°	7573.6	7568.2	7557.6	7547.0	7584.2	7589.5	7578.9	7424.6	7020.4	6259.9	5355.7
27.5°	7802.3	7786.3	7765.0	7754.4	7791.6	7818.2	7839.5	7733.1	7382.1	6525.8	5531.3
30°	8153.3	8105.4	8052.2	8015.0	8041.6	8084.1	8132.0	8068.2	7754.4	6855.6	5712.1
32.5°	8568.1	8509.6	8387.3	8318.1	8387.3	8419.2	8456.4	8424.5	8142.6	7211.9	5892.9
35°	9073.4	9004.2	8876.6	8775.5	8897.9	8828.7	8812.8	8780.9	8509.6	7562.9	6095.0
37.5°	9913.7	9812.7	9610.5	9387.2	9387.2	9238.3	9179.7	9084.0	8839.4	7876.7	6291.8
40°	10887.0	10754.0	10493.4	10163.7	9860.5	9552.0	9514.8	9445.7	9227.6	8238.4	6515.2
42.5°	11956.0	11700.7	11339.1	10940.2	10450.9	10099.9	10014.8	9818.0	9605.2	8605.3	6738.6
45°	13142.0	12610.2	12083.7	11881.6	11073.1	10754.0	10594.5	10238.1	9998.8	8988.3	6972.6
47.5°	13333.5	12918.7	12567.6	12535.7	11652.9	11386.9	11206.1	10695.5	10424.3	9397.8	7217.2
50°	13227.1	12977.2	13014.4	12886.7	12078.3	11902.8	11764.5	11184.8	10844.4	9791.4	7440.6
52.5°	12780.4	12918.7	13131.4	12897.4	12482.5	12338.9	12269.8	11711.4	11238.0	10153.0	7642.7
55°	12248.5	12344.3	12801.7	13088.9	12950.6	12822.9	12759.1	12323.0	11626.3	10456.2	7828.8
57.5°	11472.0	11429.5	11934.7	13056.9	13439.9	13365.4	13296.3	12924.0	11987.9	10674.2	7945.9
60°	10307.3	10216.9	10855.1	12418.7	13599.4	13716.4	13684.5	13322.9	12264.5	10668.9	7898.0
62.5°	8291.6	8514.9	9397.8	11376.3	13668.6	13966.4	13907.9	13354.8	12354.9	10360.5	7594.8
65°	6164.2	6483.3	7350.2	9940.3	13572.8	14094.1	13934.5	12833.6	11934.7	9748.8	6930.0
67.5°	4441.0	4722.8	5355.7	8179.9	12652.7	13509.0	13322.9	11982.6	10966.8	8881.9	6009.9
70°	3036.9	3239.0	3669.8	5956.7	10801.9	11679.4	11562.4	10711.5	9440.4	7850.1	4882.4
72.5°	2143.4	2228.5	2505.0	3930.4	8206.5	9163.8	9025.5	8812.8	7584.2	6525.8	3797.4
75°	1606.2	1659.4	1808.3	2542.2	5536.6	6350.3	6222.7	6345.0	5664.2	4940.9	2765.6
77.5°	606.3	659.5	1026.5	1622.1	3276.2	3898.5	3770.8	3845.3	3148.6	2494.4	1377.5
80°	164.9	175.5	340.4	771.2	1489.2	1941.3	1765.7	1515.8	1170.1	1148.8	728.6
82.5°	69.1	79.8	154.2	414.8	531.9	531.9	446.8	553.1	446.8	537.2	351.0
85°	26.6	31.9	37.2	106.4	69.1	74.5	79.8	106.4	90.4	111.7	79.8
87.5°	0.0	0.0	0.0	5.3	5.3	10.6	5.3	10.6	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P842024

CATALOG NUMBER: ARCH4-260-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4
2.5°	4270.8	4212.3	4127.2	3988.9	3845.3	3765.5	3664.5	3648.5	3542.1	3531.5	3488.9
5°	4297.4	4175.0	3957.0	3691.0	3430.4	3228.3	3079.4	2999.6	2845.4	2845.4	2802.9
7.5°	4318.6	4127.2	3776.1	3382.6	3026.2	2755.0	2552.9	2467.8	2329.5	2318.9	2287.0
10°	4323.9	4068.7	3579.4	3068.8	2632.7	2356.1	2159.3	2063.6	1941.3	1930.6	1909.3
12.5°	4366.5	4036.7	3403.8	2797.5	2350.8	2052.9	1861.5	1781.7	1686.0	1675.3	1654.1
15°	4435.6	4036.7	3254.9	2568.8	2100.8	1824.2	1659.4	1584.9	1515.8	1505.1	1494.5
17.5°	4504.8	4026.1	3106.0	2356.1	1893.4	1643.4	1499.8	1441.3	1388.1	1382.8	1372.2
20°	4568.6	4020.8	2957.1	2175.3	1733.8	1494.5	1382.8	1329.6	1287.1	1287.1	1281.8
22.5°	4632.4	4010.2	2813.5	2005.1	1595.6	1382.8	1287.1	1228.6	1196.7	1196.7	1191.3
25°	4728.2	4010.2	2680.5	1861.5	1483.9	1297.7	1202.0	1159.4	1132.8	1127.5	1127.5
27.5°	4839.8	4042.1	2563.5	1733.8	1388.1	1212.6	1138.2	1095.6	1063.7	1053.1	1058.4
30°	4962.2	4068.7	2457.2	1622.1	1297.7	1148.8	1069.0	1026.5	994.6	983.9	989.2
32.5°	5084.5	4100.6	2361.4	1521.1	1207.3	1090.3	1010.5	962.7	930.7	925.4	925.4
35°	5217.5	4132.5	2265.7	1436.0	1132.8	1031.8	957.3	904.1	882.9	872.2	877.6
37.5°	5350.4	4185.7	2175.3	1356.2	1079.7	978.6	909.5	856.3	840.3	835.0	835.0
40°	5510.0	4265.4	2138.0	1303.0	1031.8	930.7	872.2	819.1	803.1	803.1	803.1
42.5°	5642.9	4329.3	2106.1	1244.5	994.6	888.2	835.0	792.5	781.8	776.5	781.8
45°	5775.9	4387.8	2063.6	1191.3	946.7	845.6	803.1	760.5	749.9	749.9	749.9
47.5°	5908.9	4419.7	2005.1	1138.2	904.1	808.4	771.2	734.0	723.3	723.3	723.3
50°	6015.2	4446.3	1920.0	1079.7	856.3	776.5	739.3	702.0	691.4	691.4	691.4
52.5°	6121.6	4451.6	1829.6	1010.5	808.4	739.3	707.4	670.1	659.5	654.2	654.2
55°	6217.3	4446.3	1723.2	930.7	755.2	696.7	670.1	638.2	616.9	595.7	606.3
57.5°	6286.5	4441.0	1600.9	851.0	702.0	654.2	643.5	601.0	558.4	505.3	515.9
60°	6259.9	4382.5	1467.9	749.9	643.5	611.6	611.6	553.1	478.7	452.1	457.4
62.5°	6089.7	4217.6	1329.6	643.5	585.0	569.1	563.8	499.9	441.4	414.8	420.2
65°	5579.1	3802.7	1127.5	547.8	526.5	521.2	521.2	462.7	409.5	377.6	382.9
67.5°	4802.6	3191.1	920.1	462.7	468.0	478.7	478.7	425.5	372.3	340.4	345.7
70°	3850.6	2494.4	734.0	398.9	404.2	420.2	430.8	382.9	335.1	303.2	303.2
72.5°	2898.6	1893.4	590.4	335.1	361.7	361.7	377.6	340.4	292.5	260.6	265.9
75°	2100.8	1356.2	468.0	281.9	313.8	308.5	308.5	287.2	250.0	228.7	228.7
77.5°	994.6	712.7	372.3	202.1	244.7	239.3	244.7	228.7	212.7	191.5	196.8
80°	489.3	351.0	239.3	143.6	170.2	175.5	191.5	180.8	175.5	159.6	159.6
82.5°	234.0	138.3	111.7	101.1	117.0	122.3	133.0	133.0	138.3	127.6	127.6
85°	63.8	37.2	47.9	63.8	74.5	79.8	90.4	95.7	95.7	90.4	95.7
87.5°	16.0	16.0	21.3	31.9	37.2	42.5	47.9	47.9	21.3	0.0	0.0
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)