

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: P842661

Luminaire Tested: **ARCH4-80-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8560 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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



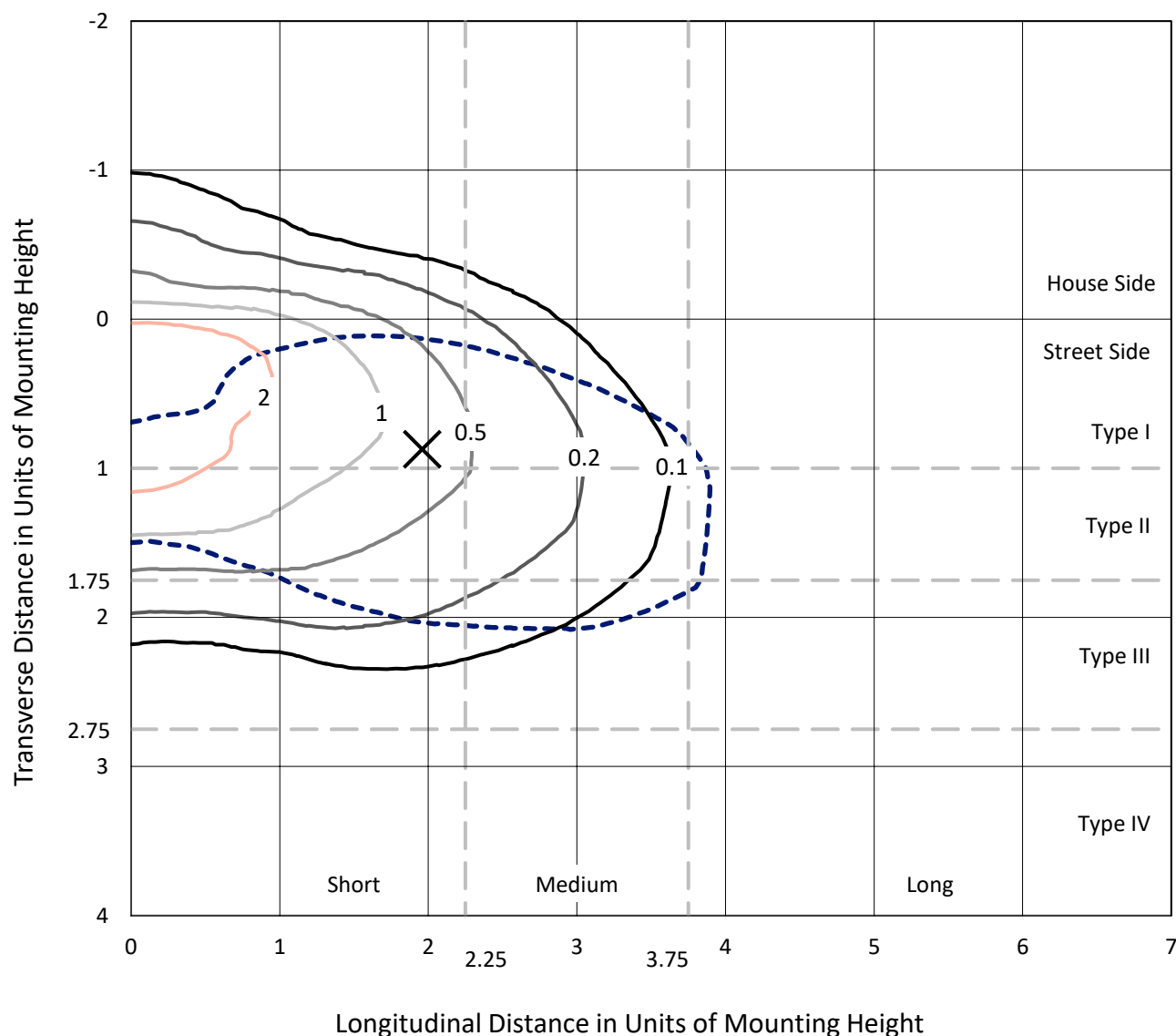
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

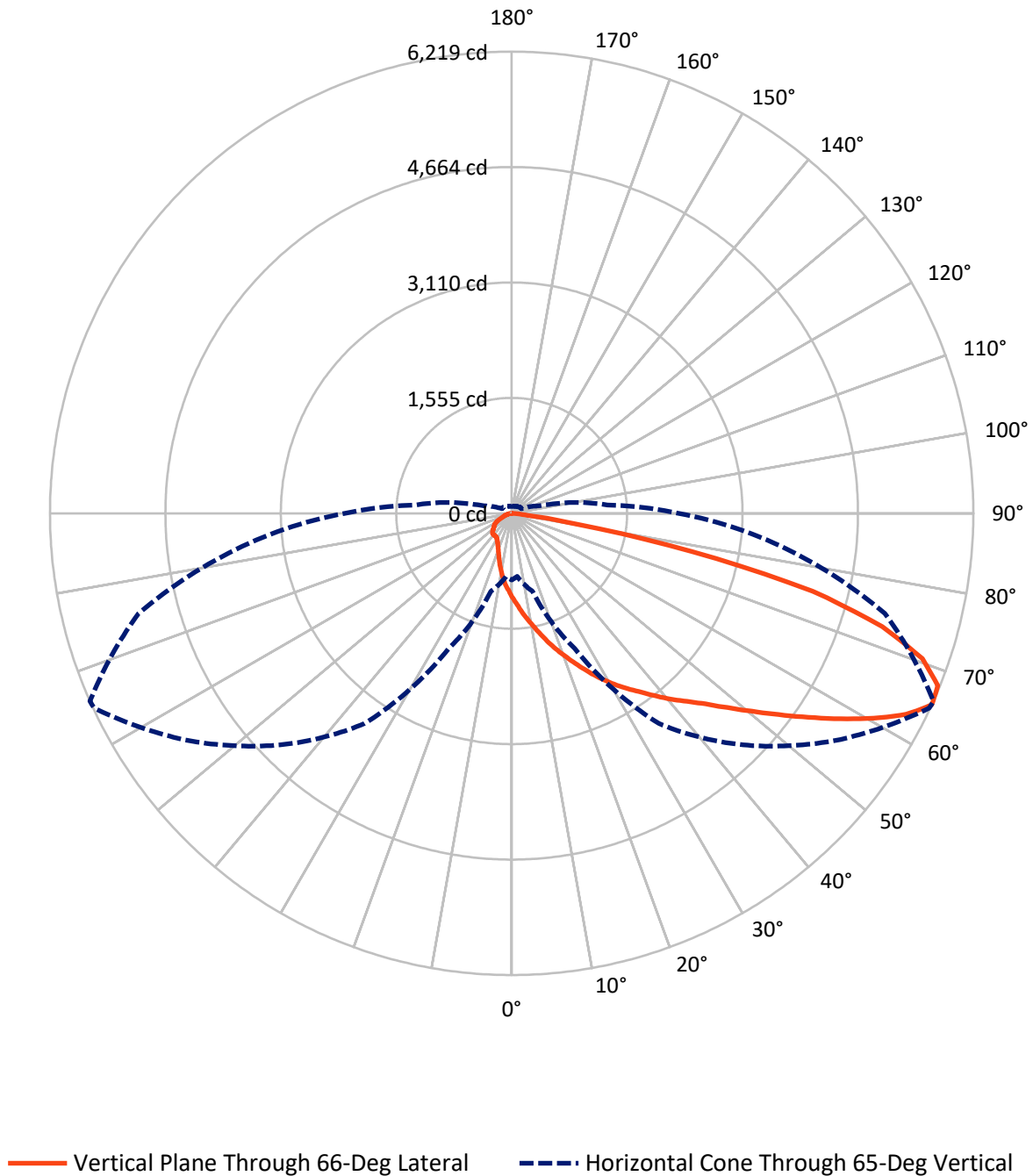


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

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	905.4	0.0	905.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7654.6	0.0	7654.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	8560.0	0.0	8560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.3
10°-20°	364.4	4.3
20°-30°	659.4	7.7
30°-40°	1031.1	12.0
40°-50°	1564.2	18.3
50°-60°	1987.3	23.2
60°-70°	1856.9	21.7
70°-80°	922.9	10.8
80°-90°	62.0	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°	8560.0	100.0
0°-180°	8560.0	100.0

Coefficient of Utilization



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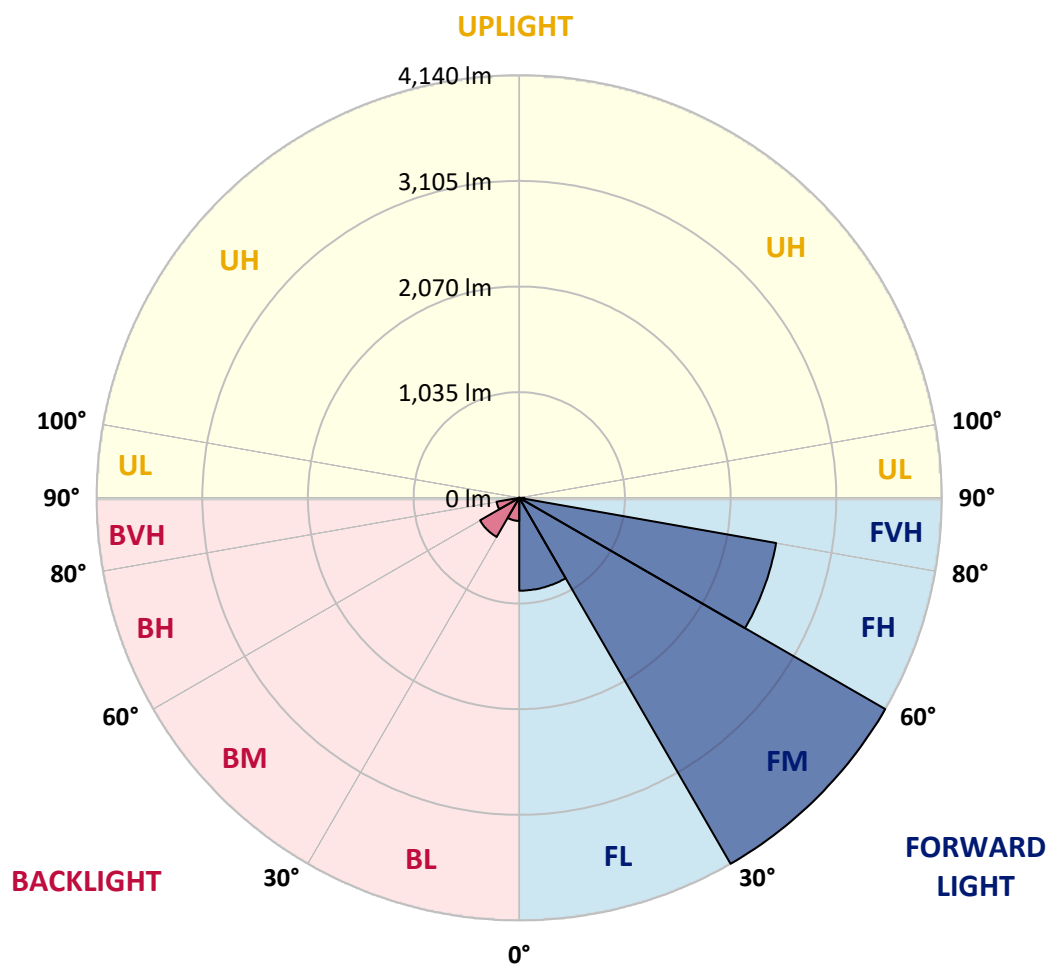
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.5	10.6			
FM	(30°-60°)	4139.7	48.4			
FH	(60°-80°)	2554.3	29.8			G2/5000
FVH	(80°-90°)	51.0	0.6			G1/100
BL	(0°-30°)	226.1	2.6	B1/500		
BM	(30°-60°)	442.8	5.2	B1/1000		
BH	(60°-80°)	225.5	2.6	B1/500		G1/500
BVH	(80°-90°)	11.0	0.1			G1/100
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°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1323.2	1333.9	1339.3	1341.1	1299.8	1281.9	1263.9	1222.6	1213.7	1190.3	1159.8
5°	1556.6	1570.9	1567.3	1560.2	1509.9	1452.4	1405.8	1328.6	1316.0	1260.3	1192.1
7.5°	1786.4	1798.9	1795.4	1768.4	1712.8	1632.0	1554.8	1441.7	1423.7	1333.9	1224.4
10°	1978.5	1989.3	1987.5	1960.5	1894.1	1795.4	1702.0	1551.2	1529.6	1402.2	1251.4
12.5°	2136.5	2150.8	2149.0	2131.1	2071.8	1964.1	1858.2	1676.9	1649.9	1484.8	1289.1
15°	2260.4	2278.3	2278.3	2271.1	2229.8	2140.1	2019.8	1815.1	1782.8	1579.9	1335.7
17.5°	2335.8	2350.1	2362.7	2375.3	2346.5	2278.3	2168.8	1953.3	1919.2	1673.3	1384.2
20°	2375.3	2389.6	2398.6	2425.5	2430.9	2396.8	2310.6	2089.8	2053.9	1779.2	1439.9
22.5°	2439.9	2452.5	2454.3	2477.6	2488.4	2497.3	2443.5	2224.4	2195.7	1895.9	1502.7
25°	2547.6	2562.0	2556.6	2567.4	2569.2	2579.9	2574.5	2378.8	2350.1	2028.8	1578.1
27.5°	2685.9	2703.8	2700.2	2689.4	2673.3	2664.3	2687.6	2535.0	2508.1	2161.6	1655.3
30°	2834.9	2856.4	2851.0	2829.5	2786.4	2748.7	2781.0	2682.3	2657.1	2298.1	1741.5
32.5°	2985.7	3010.8	3009.0	2973.1	2899.5	2834.9	2883.3	2820.5	2802.5	2445.3	1834.9
35°	3084.4	3116.7	3113.1	3091.6	2996.4	2940.8	3000.0	2962.3	2949.8	2624.8	1969.5
37.5°	3244.2	3278.3	3247.8	3193.9	3084.4	3055.7	3127.5	3122.1	3113.1	2815.1	2111.3
40°	3632.0	3682.3	3601.5	3380.7	3201.1	3176.0	3278.3	3299.9	3290.9	3003.6	2238.8
42.5°	4037.8	4113.2	3987.5	3682.3	3413.0	3321.4	3443.5	3474.0	3463.2	3165.2	2353.7
45°	4283.7	4316.0	4190.4	3953.4	3788.2	3497.4	3619.4	3669.7	3660.7	3359.1	2500.9
47.5°	4484.8	4472.2	4328.6	4168.8	4199.3	3745.1	3818.7	3917.5	3910.3	3572.8	2662.5
50°	4527.9	4499.2	4441.7	4341.2	4422.0	3996.5	4028.8	4199.3	4192.2	3809.7	2825.9
52.5°	4224.5	4186.8	4343.0	4427.3	4400.4	4179.6	4260.4	4508.1	4504.5	4066.5	2982.1
55°	3466.8	3436.3	3856.4	4292.7	4377.1	4308.9	4517.1	4829.5	4849.3	4339.4	3123.9
57.5°	2727.1	2694.8	3107.8	3955.2	4290.9	4427.3	4816.9	5197.6	5222.7	4635.6	3258.6
60°	2174.2	2125.7	2441.7	3423.7	4129.3	4518.9	5106.0	5601.5	5605.1	4906.7	3341.2
62.5°	1477.6	1423.7	1773.8	2750.5	3858.2	4533.3	5328.6	5949.8	5964.2	5109.6	3355.5
65°	897.7	852.8	1089.8	2009.0	3457.9	4411.2	5332.2	6206.5	6219.1	5202.9	3269.3
67.5°	520.7	502.7	623.0	1251.4	2793.6	4082.6	5107.8	6167.0	6190.4	5163.4	3073.6
70°	303.4	301.6	346.5	619.4	1971.3	3430.9	4606.9	5834.9	5869.0	4957.0	2773.8
72.5°	222.6	226.2	244.2	332.1	1141.8	2470.4	3901.3	5167.0	5219.1	4553.0	2346.5
75°	175.9	177.7	193.9	226.2	599.6	1396.8	2922.8	4147.3	4188.6	3833.1	1833.1
77.5°	131.1	134.7	147.2	159.8	278.3	640.9	1644.5	2554.8	2486.6	2104.2	885.1
80°	95.2	104.1	109.5	114.9	147.2	247.8	493.7	890.5	883.3	919.2	418.3
82.5°	61.0	68.2	73.6	77.2	88.0	118.5	147.2	199.3	215.4	357.3	167.0
85°	26.9	30.5	34.1	41.3	37.7	41.3	61.0	39.5	34.1	53.9	30.5
87.5°	0.0	0.0	5.4	9.0	7.2	3.6	10.8	7.2	5.4	5.4	5.4
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°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1143.6	1123.9	1082.6	1043.1	1019.8	989.2	962.3	937.2	935.4	928.2	915.6
5°	1158.0	1120.3	1043.1	969.5	913.8	854.6	804.3	764.8	750.5	739.7	725.3
7.5°	1172.4	1113.1	998.2	890.5	802.5	719.9	660.7	606.8	590.7	576.3	567.3
10°	1177.8	1100.6	946.2	802.5	687.6	599.6	536.8	497.3	483.0	475.8	470.4
12.5°	1193.9	1093.4	897.7	719.9	587.1	506.3	461.4	438.1	432.7	427.3	421.9
15°	1215.5	1093.4	849.2	639.1	508.1	443.5	416.5	400.4	396.8	395.0	391.4
17.5°	1238.8	1093.4	802.5	570.9	450.6	402.2	382.4	373.4	371.6	369.8	368.0
20°	1271.1	1095.2	752.3	511.7	409.3	371.6	355.5	344.7	342.9	341.1	341.1
22.5°	1303.4	1098.8	703.8	466.8	382.4	348.3	328.5	317.8	314.2	314.2	314.2
25°	1344.7	1109.5	658.9	429.1	359.1	326.8	301.6	292.6	290.8	290.8	289.1
27.5°	1393.2	1122.1	619.4	400.4	335.7	301.6	276.5	267.5	263.9	263.9	262.1
30°	1445.3	1134.7	587.1	378.8	312.4	276.5	253.1	242.4	238.8	240.6	238.8
32.5°	1502.7	1152.6	561.9	364.5	290.8	254.9	233.4	220.8	219.0	219.0	217.2
35°	1599.7	1202.9	558.4	357.3	272.9	238.8	217.2	204.7	202.9	202.9	201.1
37.5°	1703.8	1260.3	574.5	353.7	258.5	224.4	204.7	192.1	190.3	190.3	190.3
40°	1791.8	1303.4	592.5	353.7	249.6	211.9	193.9	183.1	183.1	183.1	183.1
42.5°	1851.0	1307.0	588.9	353.7	242.4	202.9	186.7	175.9	175.9	177.7	175.9
45°	1939.0	1325.0	574.5	348.3	237.0	195.7	179.5	170.6	168.8	170.6	170.6
47.5°	2043.1	1357.3	560.2	326.8	235.2	188.5	174.1	163.4	161.6	163.4	161.6
50°	2141.9	1386.0	553.0	298.0	231.6	181.3	167.0	156.2	154.4	156.2	154.4
52.5°	2224.4	1398.6	540.4	278.3	222.6	174.1	159.8	149.0	145.4	147.2	147.2
55°	2290.9	1395.0	522.4	262.1	206.5	167.0	150.8	141.8	136.4	136.4	134.7
57.5°	2351.9	1396.8	506.3	246.0	188.5	156.2	143.6	132.9	125.7	123.9	122.1
60°	2375.3	1387.8	477.6	224.4	170.6	147.2	134.7	122.1	114.9	113.1	111.3
62.5°	2342.9	1355.5	439.9	186.7	154.4	136.4	125.7	113.1	105.9	104.1	102.3
65°	2251.4	1294.5	382.4	147.2	140.0	123.9	114.9	105.9	96.9	93.4	91.6
67.5°	2095.2	1206.5	310.6	118.5	123.9	113.1	107.7	96.9	86.2	82.6	80.8
70°	1872.6	1089.8	233.4	100.5	109.5	100.5	96.9	86.2	77.2	73.6	71.8
72.5°	1560.2	901.3	163.4	86.2	95.2	88.0	84.4	77.2	68.2	62.8	62.8
75°	1179.5	646.3	107.7	73.6	79.0	75.4	70.0	64.6	59.2	55.7	53.9
77.5°	508.1	251.3	66.4	55.7	64.6	62.8	55.7	52.1	50.3	46.7	46.7
80°	219.0	102.3	41.3	41.3	46.7	44.9	43.1	39.5	39.5	37.7	35.9
82.5°	80.8	41.3	25.1	30.5	34.1	30.5	30.5	30.5	30.5	28.7	28.7
85°	19.7	12.6	12.6	18.0	19.7	18.0	19.7	18.0	18.0	18.0	16.2
87.5°	5.4	5.4	7.2	7.2	7.2	7.2	7.2	5.4	0.0	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)