

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: P799666

Luminaire Tested: **ARCH2-40-740-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

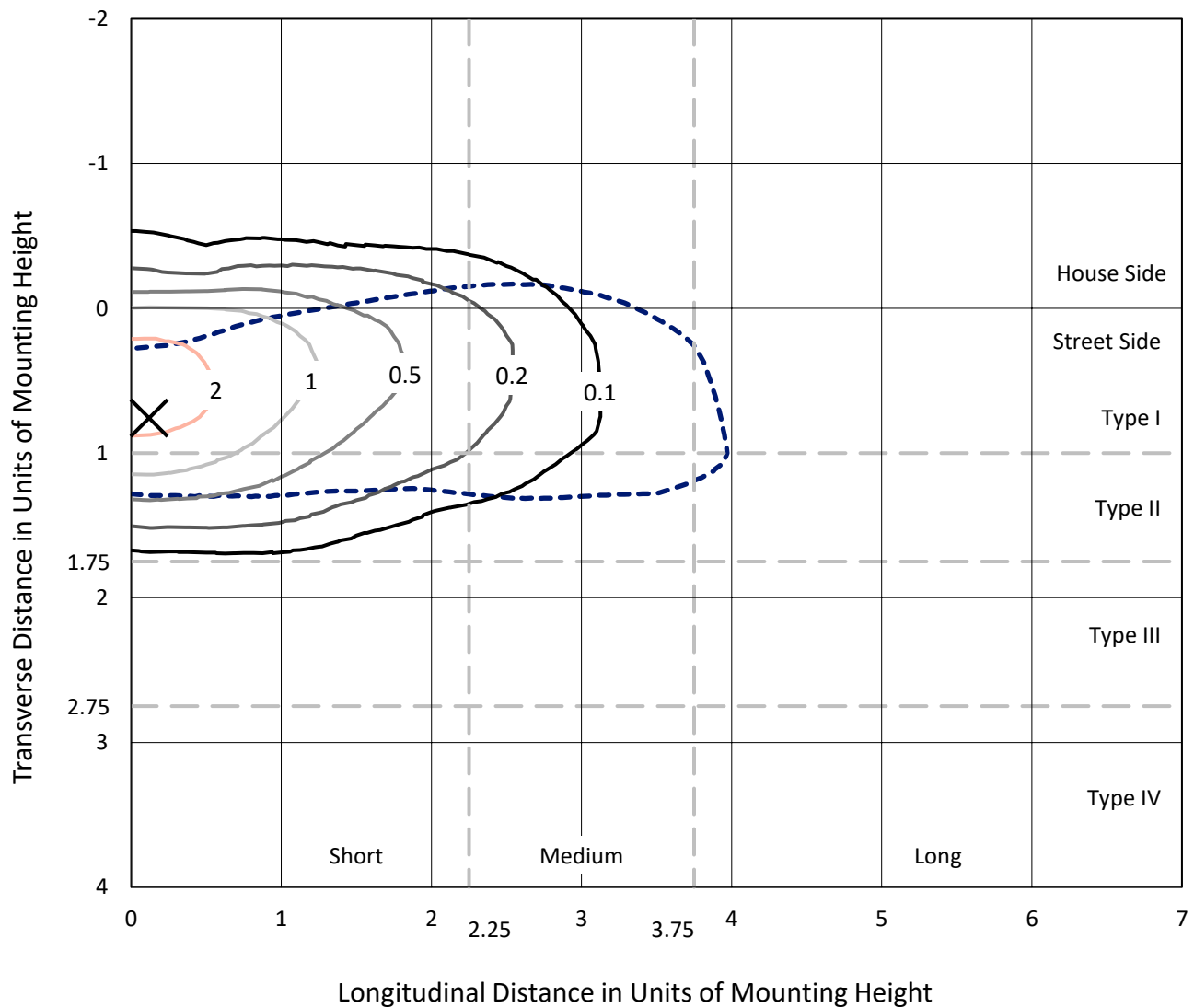


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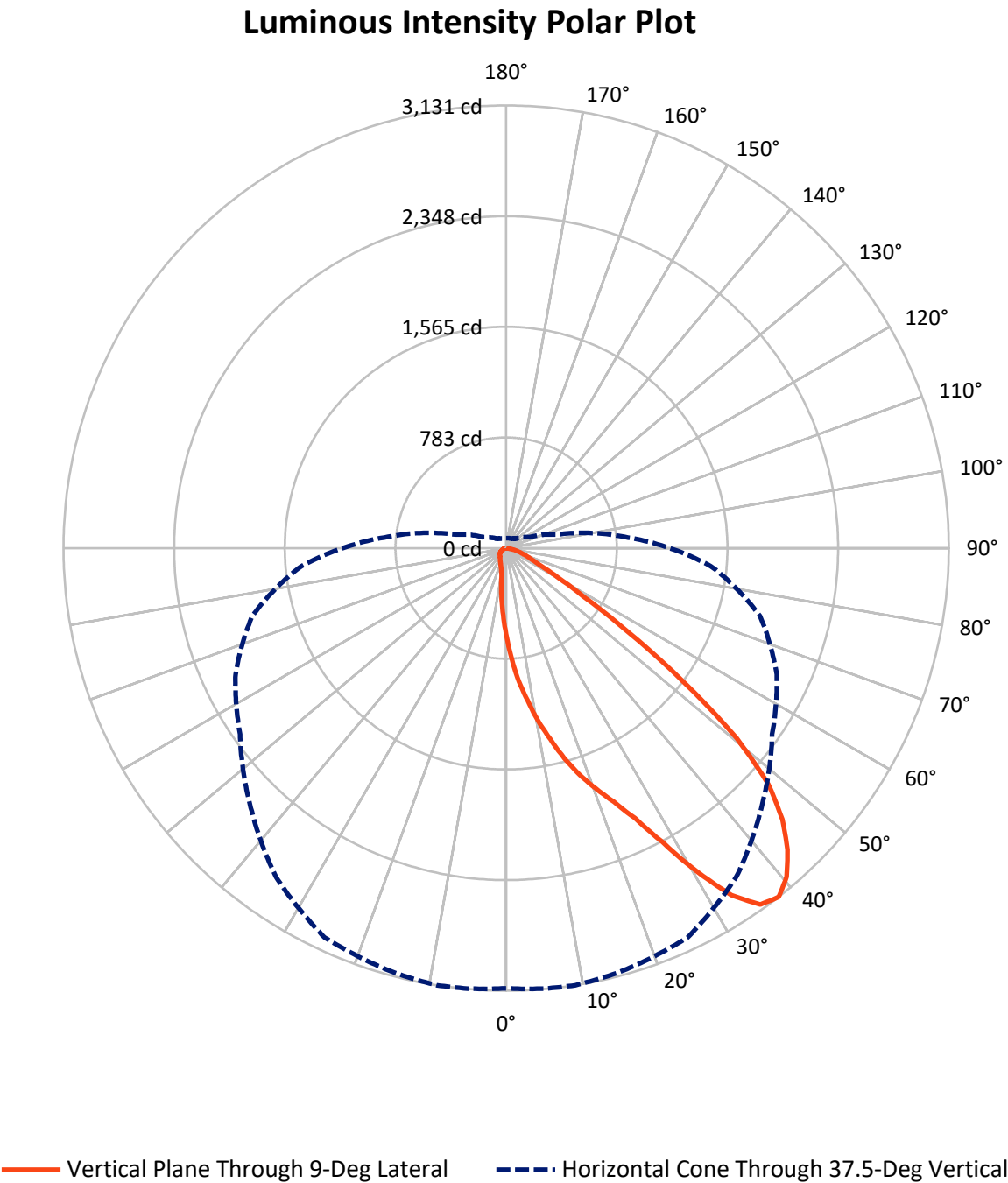
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.0	0.0	584.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4218.0	0.0	4218.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	4802.0	0.0	4802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.3
10°-20°	221.8	4.6
20°-30°	455.7	9.5
30°-40°	805.4	16.8
40°-50°	1069.9	22.3
50°-60°	1014.8	21.1
60°-70°	774.2	16.1
70°-80°	375.3	7.8
80°-90°	21.1	0.4
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°	4802.0	100.0
0°-180°	4802.0	100.0

Coefficient of Utilization



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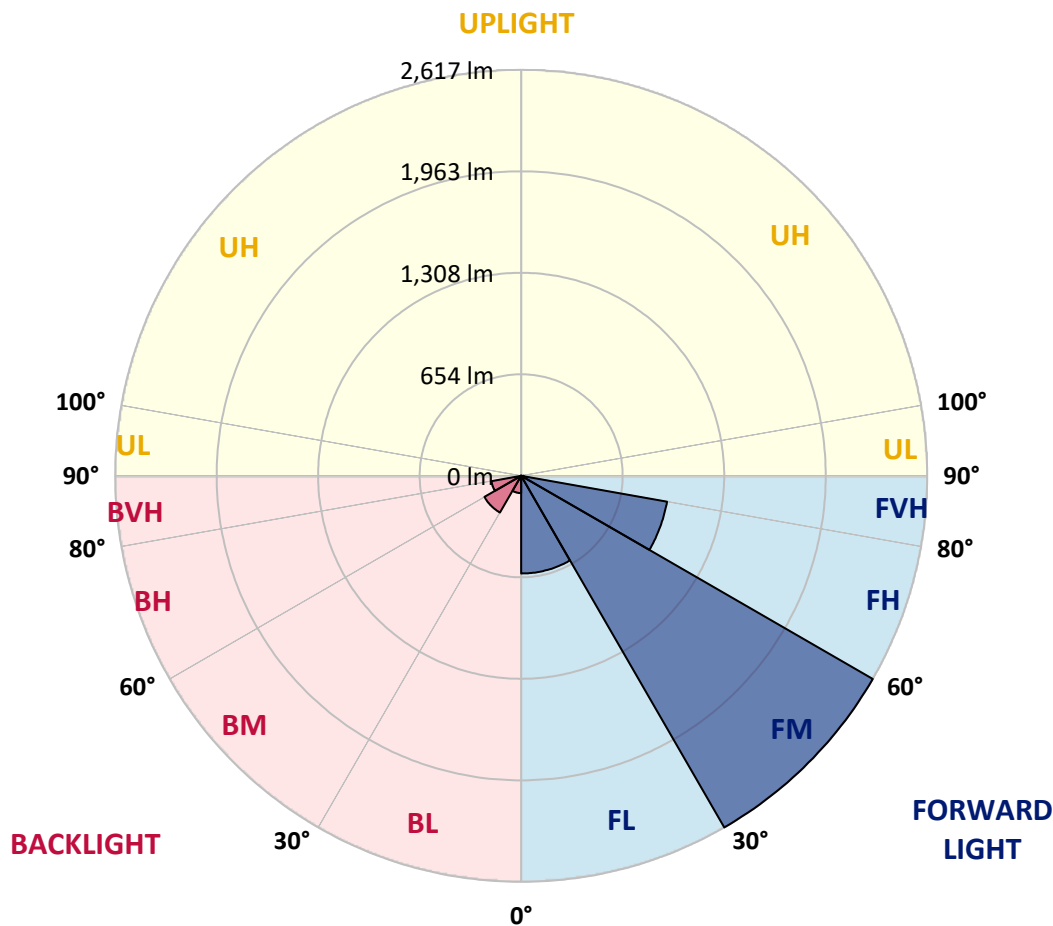
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.8	13.1			
FM	(30°-60°)	2616.9	54.5			
FH	(60°-80°)	954.6	19.9			G1/1800
FVH	(80°-90°)	16.7	0.3			G1/100
BL	(0°-30°)	111.5	2.3	B1/500		
BM	(30°-60°)	273.3	5.7	B1/1000		
BH	(60°-80°)	194.9	4.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	786.6	772.8	788.5	786.6	772.8	763.9	736.3	727.4	694.9	671.2	650.5
5°	948.2	934.4	948.2	944.3	924.6	902.9	857.5	828.0	769.8	718.5	672.2
7.5°	1082.3	1082.3	1088.2	1089.2	1065.5	1032.0	975.8	931.5	849.6	770.8	696.9
10°	1227.1	1228.1	1240.9	1232.1	1200.5	1155.2	1084.2	1028.0	929.5	826.0	720.5
12.5°	1381.9	1382.9	1386.8	1382.9	1345.4	1287.3	1201.5	1127.6	1014.2	889.1	753.0
15°	1536.6	1537.6	1542.6	1535.7	1494.3	1426.3	1328.7	1238.0	1103.9	960.0	792.5
17.5°	1681.5	1683.5	1687.5	1678.6	1635.2	1554.4	1454.8	1345.4	1199.6	1035.9	836.8
20°	1811.6	1813.6	1816.6	1804.7	1761.4	1680.6	1573.1	1458.8	1297.1	1113.8	885.1
22.5°	1942.7	1944.7	1949.6	1933.9	1885.6	1792.9	1687.5	1569.2	1400.6	1199.6	941.3
25°	2110.3	2112.3	2116.2	2093.5	2027.5	1919.1	1807.7	1686.5	1513.0	1296.1	1010.3
27.5°	2355.7	2353.8	2353.8	2312.4	2199.0	2058.1	1928.9	1805.7	1634.2	1399.6	1086.2
30°	2659.3	2654.4	2651.4	2595.2	2433.6	2214.8	2053.1	1917.1	1750.5	1509.0	1168.0
32.5°	2931.4	2931.4	2925.4	2866.3	2694.8	2425.7	2185.2	2025.5	1862.9	1619.4	1252.8
35°	3092.0	3098.9	3096.0	3051.6	2926.4	2652.4	2363.6	2155.6	1981.2	1734.8	1354.3
37.5°	3113.7	3127.5	3130.5	3103.8	3037.8	2837.7	2561.7	2296.6	2111.3	1859.0	1452.9
40°	3026.0	3055.6	3055.6	3051.6	3028.0	2925.4	2728.3	2460.2	2245.3	1988.1	1552.4
42.5°	2890.9	2921.5	2917.6	2932.3	2926.4	2904.7	2822.0	2613.0	2379.4	2121.1	1643.1
45°	2714.5	2746.1	2738.2	2764.8	2776.6	2800.3	2812.1	2719.4	2511.5	2266.0	1744.6
47.5°	2431.6	2484.9	2496.7	2544.0	2593.3	2667.2	2723.4	2757.9	2634.7	2421.8	1855.0
50°	2013.7	2088.6	2112.3	2211.8	2346.9	2499.6	2590.3	2710.6	2721.4	2581.4	1974.3
52.5°	1442.0	1528.8	1565.2	1728.9	2006.8	2272.9	2436.6	2606.1	2754.9	2734.2	2103.4
55°	932.4	1006.4	1041.8	1195.6	1565.2	1983.2	2255.2	2471.1	2736.2	2874.2	2251.3
57.5°	574.6	617.0	640.7	772.8	1112.8	1611.6	2017.7	2346.9	2679.0	2995.4	2405.0
60°	387.4	412.0	423.8	485.9	756.0	1204.5	1691.4	2216.8	2604.1	3077.2	2545.0
62.5°	257.3	265.1	277.0	315.4	498.7	845.7	1299.1	1984.1	2547.9	3082.2	2648.5
65°	199.1	203.0	208.0	224.7	307.5	591.4	913.7	1607.6	2464.2	2977.7	2681.0
67.5°	156.7	160.7	166.6	175.4	222.8	401.2	622.0	1177.9	2292.6	2814.1	2627.8
70°	123.2	126.2	130.1	138.0	173.5	290.8	411.0	782.6	1946.7	2658.3	2460.2
72.5°	97.6	100.5	104.5	112.4	140.9	212.9	281.9	487.9	1501.2	2468.1	2137.9
75°	76.9	78.9	81.8	89.7	113.4	165.6	191.2	291.8	1020.2	2120.2	1665.8
77.5°	38.4	47.3	54.2	62.1	82.8	114.3	127.2	161.6	430.7	1088.2	794.4
80°	22.7	27.6	29.6	34.5	54.2	69.0	69.0	65.1	136.0	417.9	324.3
82.5°	12.8	17.7	18.7	19.7	32.5	39.4	31.5	23.7	27.6	140.0	94.6
85°	3.9	5.9	6.9	7.9	10.8	11.8	10.8	9.9	7.9	13.8	8.9
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0
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°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	638.7	625.9	601.3	578.6	556.9	541.1	526.3	512.5	502.7	494.8	493.8
5°	647.6	622.0	574.6	530.3	489.9	456.4	427.8	405.1	388.4	376.5	375.5
7.5°	659.4	620.0	548.0	482.0	421.9	373.6	332.2	301.6	279.9	271.1	264.2
10°	669.3	618.0	521.4	433.7	354.8	293.7	244.4	213.9	198.1	192.2	189.2
12.5°	686.0	620.0	498.7	389.3	296.7	224.7	187.3	170.5	163.6	158.7	157.7
15°	710.7	628.9	477.1	346.0	237.5	181.4	159.7	148.8	141.9	140.9	140.0
17.5°	735.3	636.7	457.3	301.6	197.1	157.7	142.9	134.1	129.1	128.1	128.1
20°	763.9	646.6	435.7	259.2	168.5	141.9	130.1	123.2	117.3	116.3	116.3
22.5°	797.4	660.4	415.0	221.8	149.8	130.1	120.3	112.4	107.4	106.5	106.5
25°	842.7	681.1	398.2	194.2	137.0	120.3	111.4	104.5	100.5	98.6	98.6
27.5°	893.0	709.7	386.4	177.4	128.1	112.4	103.5	97.6	93.6	91.7	91.7
30°	949.2	741.2	378.5	170.5	123.2	105.5	97.6	91.7	86.7	85.8	85.8
32.5°	1011.3	777.7	373.6	171.5	122.2	100.5	91.7	85.8	81.8	79.8	79.8
35°	1080.3	818.1	370.6	177.4	124.2	96.6	86.7	80.8	76.9	74.9	74.9
37.5°	1157.2	865.4	370.6	183.3	129.1	95.6	81.8	75.9	72.9	71.0	71.0
40°	1229.1	915.7	374.6	190.2	134.1	95.6	77.9	72.9	69.0	67.0	67.0
42.5°	1285.3	944.3	377.5	197.1	137.0	94.6	73.9	69.0	66.0	64.1	64.1
45°	1349.4	974.8	371.6	200.1	137.0	92.7	71.0	66.0	63.1	61.1	61.1
47.5°	1420.3	1012.3	370.6	202.1	134.1	88.7	68.0	63.1	61.1	59.1	59.1
50°	1492.3	1053.7	372.6	201.1	130.1	82.8	64.1	61.1	58.2	56.2	56.2
52.5°	1574.1	1097.0	376.5	199.1	121.2	75.9	61.1	58.2	55.2	53.2	52.2
55°	1664.8	1144.4	384.4	195.2	109.4	69.0	58.2	55.2	51.3	49.3	48.3
57.5°	1769.3	1202.5	393.3	187.3	96.6	63.1	55.2	51.3	45.3	42.4	41.4
60°	1868.8	1268.5	403.1	168.5	83.8	57.2	52.2	46.3	40.4	38.4	37.5
62.5°	1962.5	1333.6	408.1	135.0	71.0	52.2	49.3	42.4	36.5	34.5	33.5
65°	2022.6	1404.6	397.2	91.7	58.2	48.3	45.3	39.4	33.5	30.6	30.6
67.5°	2026.5	1438.1	359.8	60.1	47.3	43.4	41.4	35.5	29.6	27.6	26.6
70°	1927.0	1387.8	275.0	47.3	39.4	37.5	37.5	31.5	25.6	23.7	22.7
72.5°	1698.3	1229.1	175.4	38.4	33.5	31.5	31.5	26.6	22.7	19.7	18.7
75°	1340.5	948.2	93.6	31.5	27.6	26.6	24.6	21.7	18.7	16.8	15.8
77.5°	616.0	417.9	43.4	22.7	20.7	20.7	18.7	15.8	14.8	12.8	12.8
80°	243.5	141.9	21.7	14.8	13.8	13.8	13.8	10.8	10.8	8.9	7.9
82.5°	67.0	29.6	10.8	8.9	8.9	8.9	7.9	6.9	6.9	5.9	5.9
85°	6.9	4.9	4.9	4.9	4.9	3.9	3.9	3.0	2.0	2.0	2.0
87.5°	3.0	3.0	3.0	3.0	3.0	2.0	1.0	0.0	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)