

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: P836756

Luminaire Tested: **ARCH3-70-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

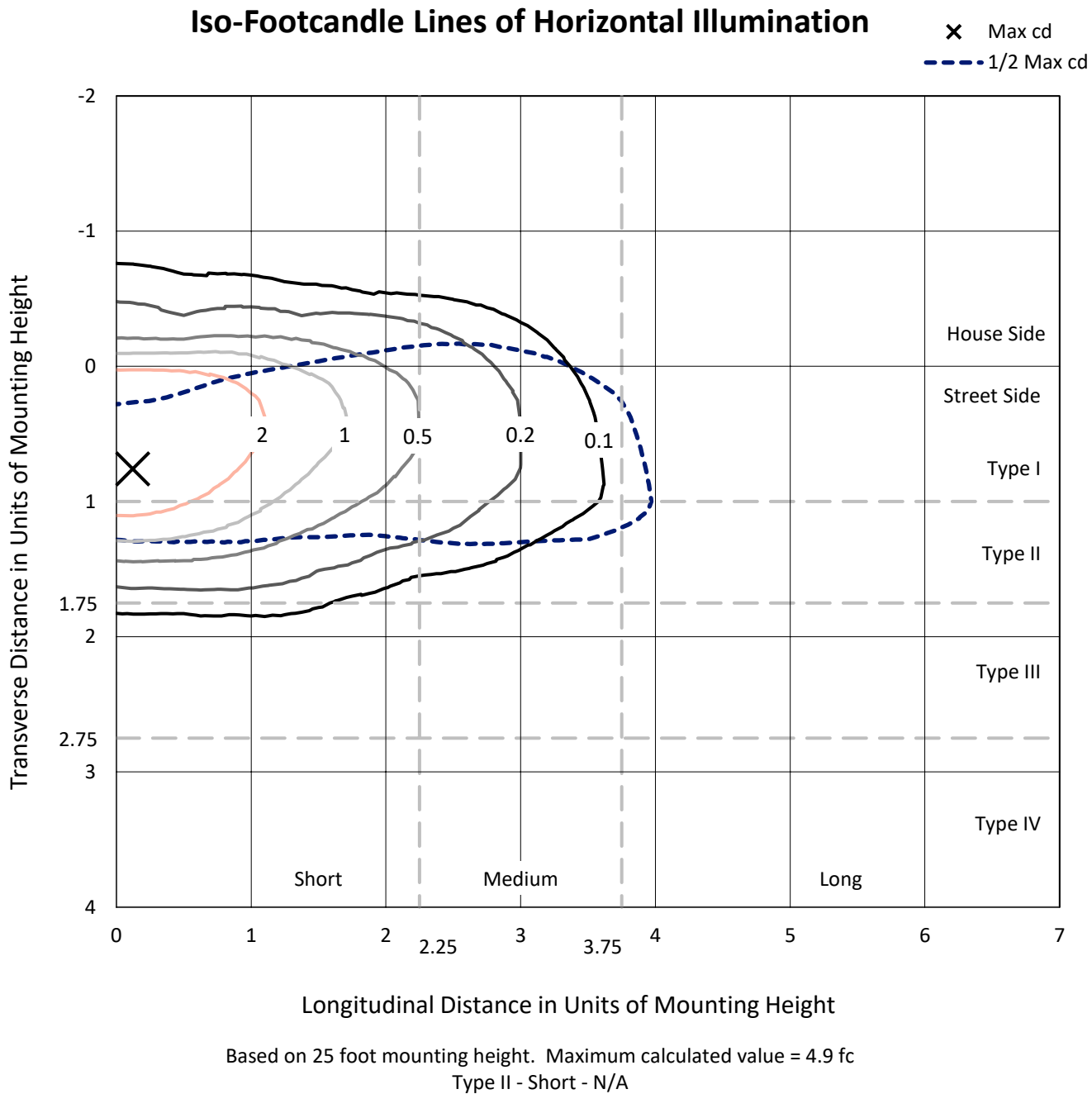
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8338 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.1
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

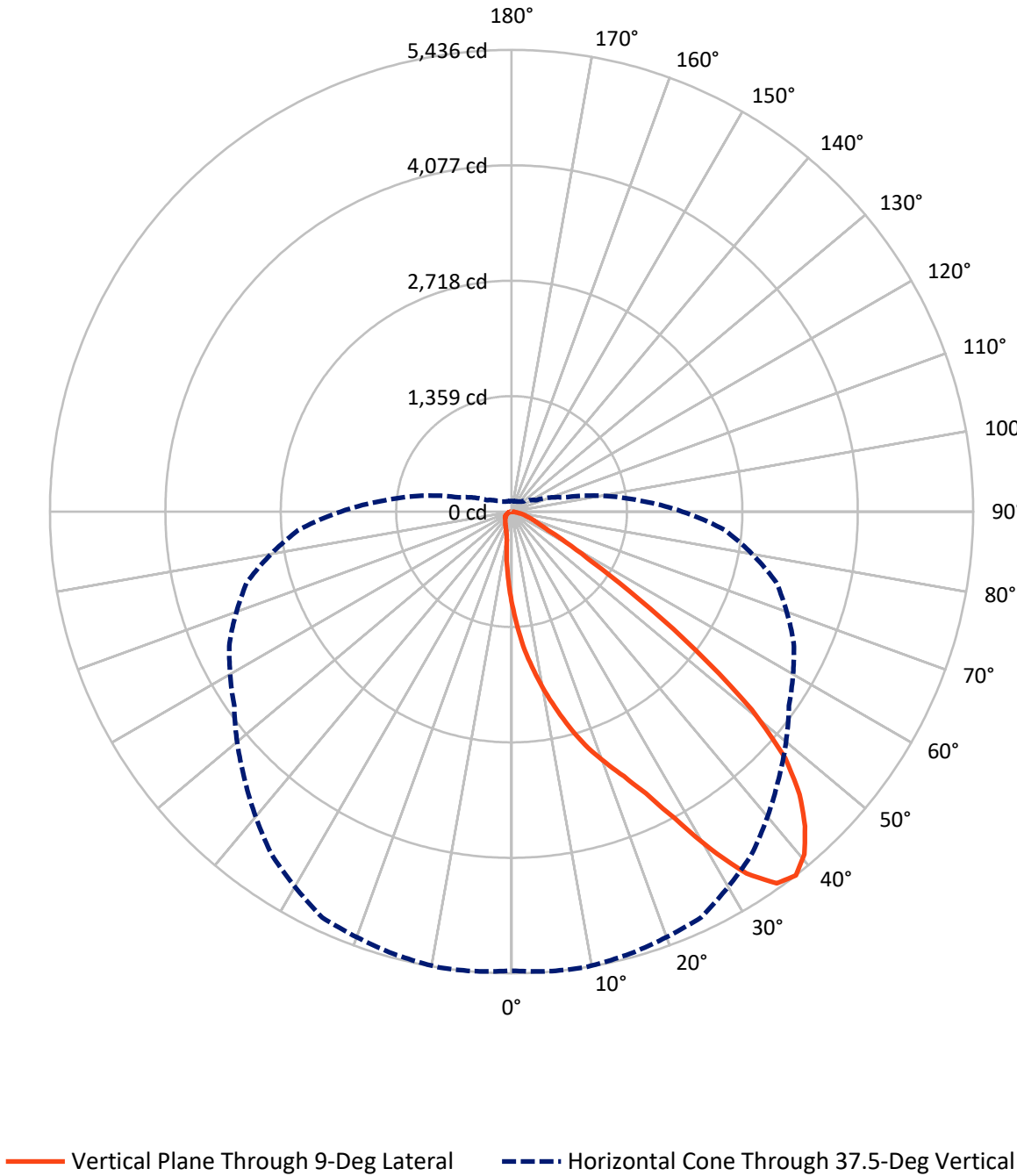


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.1	0.0	1014.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7323.9	0.0	7323.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	8338.0	0.0	8338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.3
10°-20°	385.1	4.6
20°-30°	791.2	9.5
30°-40°	1398.5	16.8
40°-50°	1857.8	22.3
50°-60°	1762.0	21.1
60°-70°	1344.3	16.1
70°-80°	651.7	7.8
80°-90°	36.7	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°	8338.0	100.0
0°-180°	8338.0	100.0

Coefficient of Utilization



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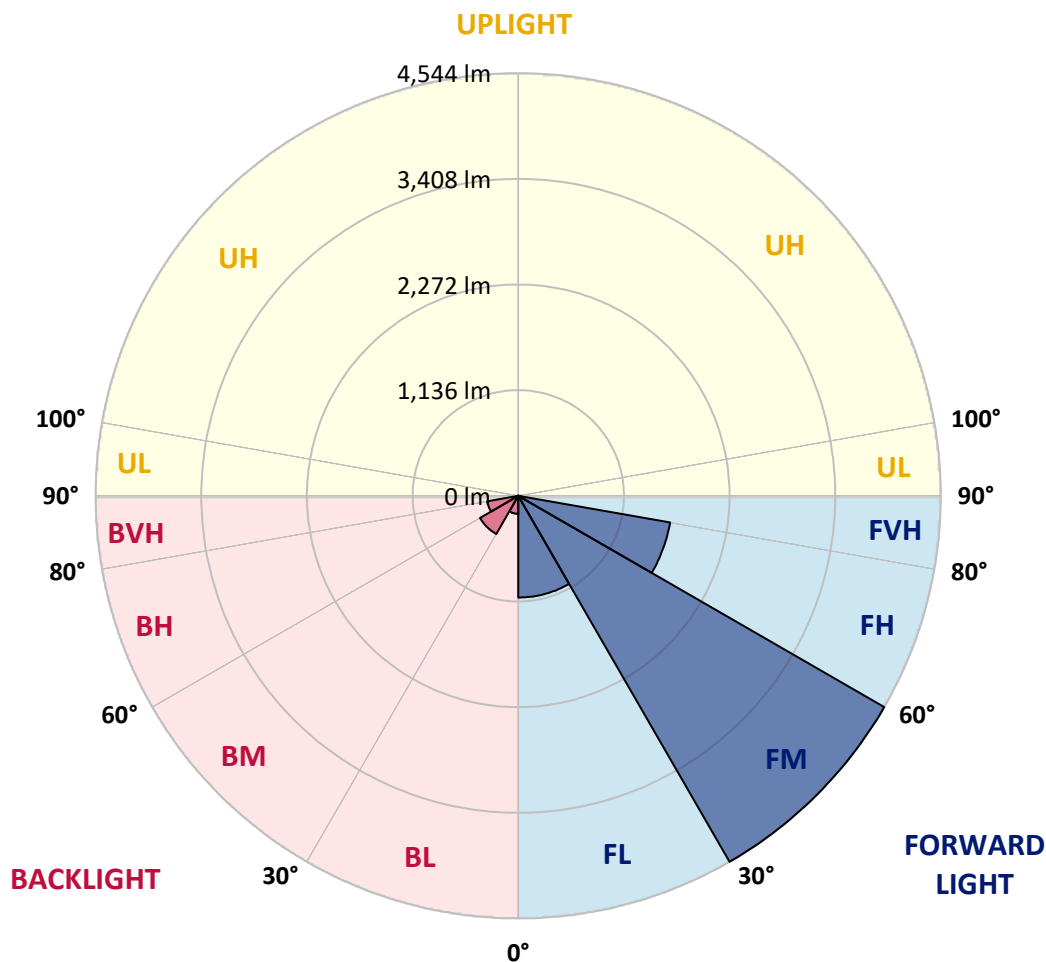
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.5	13.1			
FM	(30°-60°)	4543.8	54.5			
FH	(60°-80°)	1657.6	19.9			G1/1800
FVH	(80°-90°)	29.0	0.3			G1/100
BL	(0°-30°)	193.5	2.3	B1/500		
BM	(30°-60°)	474.5	5.7	B1/1000		
BH	(60°-80°)	338.4	4.1	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2
2.5°	1365.7	1341.8	1369.2	1365.7	1341.8	1326.4	1278.5	1263.1	1206.6	1165.5	1129.6
5°	1646.4	1622.5	1646.4	1639.6	1605.4	1567.7	1489.0	1437.6	1336.7	1247.7	1167.2
7.5°	1879.2	1879.2	1889.5	1891.2	1850.1	1791.9	1694.3	1617.3	1475.3	1338.4	1210.0
10°	2130.8	2132.5	2154.7	2139.3	2084.6	2005.8	1882.6	1785.1	1613.9	1434.2	1251.1
12.5°	2399.5	2401.2	2408.0	2401.2	2336.1	2235.2	2086.3	1957.9	1761.1	1543.7	1307.6
15°	2668.2	2669.9	2678.4	2666.5	2594.6	2476.5	2307.1	2149.6	1916.8	1667.0	1376.0
17.5°	2919.8	2923.2	2930.0	2914.6	2839.3	2699.0	2526.1	2336.1	2082.9	1798.7	1453.0
20°	3145.7	3149.1	3154.2	3133.7	3058.4	2918.0	2731.5	2533.0	2252.3	1934.0	1536.9
22.5°	3373.3	3376.7	3385.3	3357.9	3274.0	3113.2	2930.0	2724.7	2432.0	2082.9	1634.4
25°	3664.2	3667.7	3674.5	3635.1	3520.5	3332.2	3138.8	2928.3	2627.1	2250.6	1754.3
27.5°	4090.4	4087.0	4087.0	4015.1	3818.3	3573.5	3349.3	3135.4	2837.6	2430.3	1886.0
30°	4617.5	4609.0	4603.8	4506.3	4225.6	3845.7	3565.0	3328.8	3039.6	2620.3	2028.1
32.5°	5089.9	5089.9	5079.6	4976.9	4679.1	4211.9	3794.3	3517.1	3234.7	2811.9	2175.3
35°	5368.9	5380.8	5375.7	5298.7	5081.3	4605.5	4104.1	3743.0	3440.0	3012.2	2351.6
37.5°	5406.5	5430.5	5435.6	5389.4	5274.7	4927.3	4448.1	3987.7	3666.0	3227.8	2522.7
40°	5254.2	5305.5	5305.5	5298.7	5257.6	5079.6	4737.3	4271.8	3898.7	3452.0	2695.6
42.5°	5019.7	5072.8	5065.9	5091.6	5081.3	5043.7	4899.9	4537.1	4131.5	3683.1	2853.0
45°	4713.4	4768.1	4754.4	4800.7	4821.2	4862.3	4882.8	4721.9	4360.8	3934.7	3029.3
47.5°	4222.2	4314.6	4335.1	4417.3	4502.9	4631.2	4728.8	4788.7	4574.7	4205.1	3221.0
50°	3496.5	3626.6	3667.7	3840.5	4075.0	4340.3	4497.7	4706.5	4725.4	4482.3	3428.1
52.5°	2503.9	2654.5	2717.8	3001.9	3484.5	3946.6	4230.7	4525.1	4783.5	4747.6	3652.3
55°	1619.0	1747.4	1809.0	2076.0	2717.8	3443.5	3915.8	4290.6	4751.0	4990.6	3909.0
57.5°	997.8	1071.4	1112.5	1341.8	1932.2	2798.2	3503.4	4075.0	4651.8	5201.1	4176.0
60°	672.6	715.4	735.9	843.8	1312.7	2091.4	2936.9	3849.1	4521.7	5343.2	4419.0
62.5°	446.7	460.4	480.9	547.7	866.0	1468.4	2255.7	3445.2	4424.1	5351.7	4598.7
65°	345.7	352.6	361.1	390.2	534.0	1026.9	1586.5	2791.4	4278.7	5170.3	4655.2
67.5°	272.1	279.0	289.2	304.6	386.8	696.6	1079.9	2045.2	3980.9	4886.2	4562.8
70°	213.9	219.1	225.9	239.6	301.2	504.9	713.7	1358.9	3380.1	4615.8	4271.8
72.5°	169.4	174.6	181.4	195.1	244.7	369.7	489.5	847.2	2606.6	4285.5	3712.2
75°	133.5	136.9	142.1	155.7	196.8	287.5	332.0	506.6	1771.4	3681.4	2892.4
77.5°	66.7	82.2	94.1	107.8	143.8	198.5	220.8	280.7	747.9	1889.5	1379.4
80°	39.4	47.9	51.3	59.9	94.1	119.8	119.8	113.0	236.2	725.7	563.1
82.5°	22.2	30.8	32.5	34.2	56.5	68.5	54.8	41.1	47.9	243.0	164.3
85°	6.8	10.3	12.0	13.7	18.8	20.5	18.8	17.1	13.7	24.0	15.4
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	3.4	3.4	5.1	5.1	5.1
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°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2
2.5°	1109.0	1086.8	1044.0	1004.6	967.0	939.6	913.9	890.0	872.8	859.2	857.4
5°	1124.4	1079.9	997.8	920.8	850.6	792.4	742.8	703.4	674.3	653.8	652.1
7.5°	1145.0	1076.5	951.6	836.9	732.5	648.6	576.8	523.7	486.1	470.7	458.7
10°	1162.1	1073.1	905.4	753.0	616.1	510.0	424.4	371.4	344.0	333.7	328.6
12.5°	1191.2	1076.5	866.0	676.0	515.2	390.2	325.2	296.1	284.1	275.5	273.8
15°	1234.0	1091.9	828.3	600.7	412.5	314.9	277.3	258.4	246.5	244.7	243.0
17.5°	1276.8	1105.6	794.1	523.7	342.3	273.8	248.2	232.8	224.2	222.5	222.5
20°	1326.4	1122.7	756.5	450.1	292.7	246.5	225.9	213.9	203.7	202.0	202.0
22.5°	1384.6	1146.7	720.5	385.1	260.1	225.9	208.8	195.1	186.5	184.8	184.8
25°	1463.3	1182.6	691.4	337.2	237.9	208.8	193.4	181.4	174.6	171.1	171.1
27.5°	1550.6	1232.3	670.9	308.1	222.5	195.1	179.7	169.4	162.6	159.2	159.2
30°	1648.1	1287.0	657.2	296.1	213.9	183.1	169.4	159.2	150.6	148.9	148.9
32.5°	1756.0	1350.3	648.6	297.8	212.2	174.6	159.2	148.9	142.1	138.6	138.6
35°	1875.8	1420.5	643.5	308.1	215.6	167.7	150.6	140.3	133.5	130.1	130.1
37.5°	2009.3	1502.7	643.5	318.3	224.2	166.0	142.1	131.8	126.6	123.2	123.2
40°	2134.2	1589.9	650.4	330.3	232.8	166.0	135.2	126.6	119.8	116.4	116.4
42.5°	2231.7	1639.6	655.5	342.3	237.9	164.3	128.4	119.8	114.7	111.2	111.2
45°	2343.0	1692.6	645.2	347.4	237.9	160.9	123.2	114.7	109.5	106.1	106.1
47.5°	2466.2	1757.7	643.5	350.9	232.8	154.0	118.1	109.5	106.1	102.7	102.7
50°	2591.2	1829.6	646.9	349.1	225.9	143.8	111.2	106.1	101.0	97.6	97.6
52.5°	2733.2	1904.9	653.8	345.7	210.5	131.8	106.1	101.0	95.8	92.4	90.7
55°	2890.7	1987.0	667.5	338.9	190.0	119.8	101.0	95.8	89.0	85.6	83.9
57.5°	3072.1	2088.0	682.9	325.2	167.7	109.5	95.8	89.0	78.7	73.6	71.9
60°	3244.9	2202.7	700.0	292.7	145.5	99.3	90.7	80.4	70.2	66.7	65.0
62.5°	3407.5	2315.6	708.5	234.5	123.2	90.7	85.6	73.6	63.3	59.9	58.2
65°	3511.9	2438.8	689.7	159.2	101.0	83.9	78.7	68.5	58.2	53.1	53.1
67.5°	3518.8	2497.0	624.7	104.4	82.2	75.3	71.9	61.6	51.3	47.9	46.2
70°	3345.9	2409.7	477.5	82.2	68.5	65.0	65.0	54.8	44.5	41.1	39.4
72.5°	2948.9	2134.2	304.6	66.7	58.2	54.8	54.8	46.2	39.4	34.2	32.5
75°	2327.6	1646.4	162.6	54.8	47.9	46.2	42.8	37.7	32.5	29.1	27.4
77.5°	1069.7	725.7	75.3	39.4	35.9	35.9	32.5	27.4	25.7	22.2	22.2
80°	422.7	246.5	37.7	25.7	24.0	24.0	24.0	18.8	18.8	15.4	13.7
82.5°	116.4	51.3	18.8	15.4	15.4	15.4	13.7	12.0	12.0	10.3	10.3
85°	12.0	8.6	8.6	8.6	8.6	6.8	6.8	5.1	3.4	3.4	3.4
87.5°	5.1	5.1	5.1	5.1	5.1	3.4	1.7	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)