

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: P798914

Luminaire Tested: **ARCH1-40-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798914
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: ARCH1-40-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

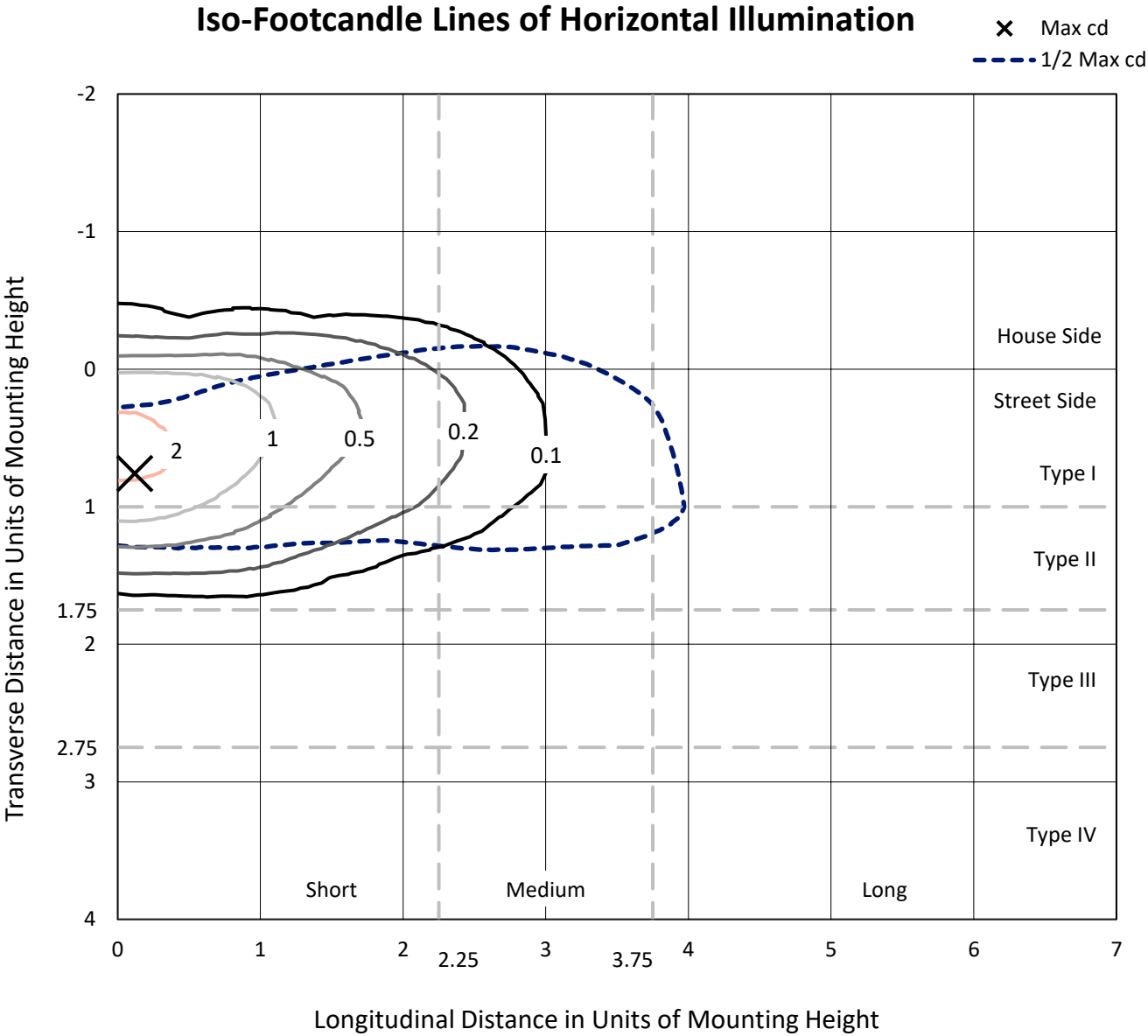
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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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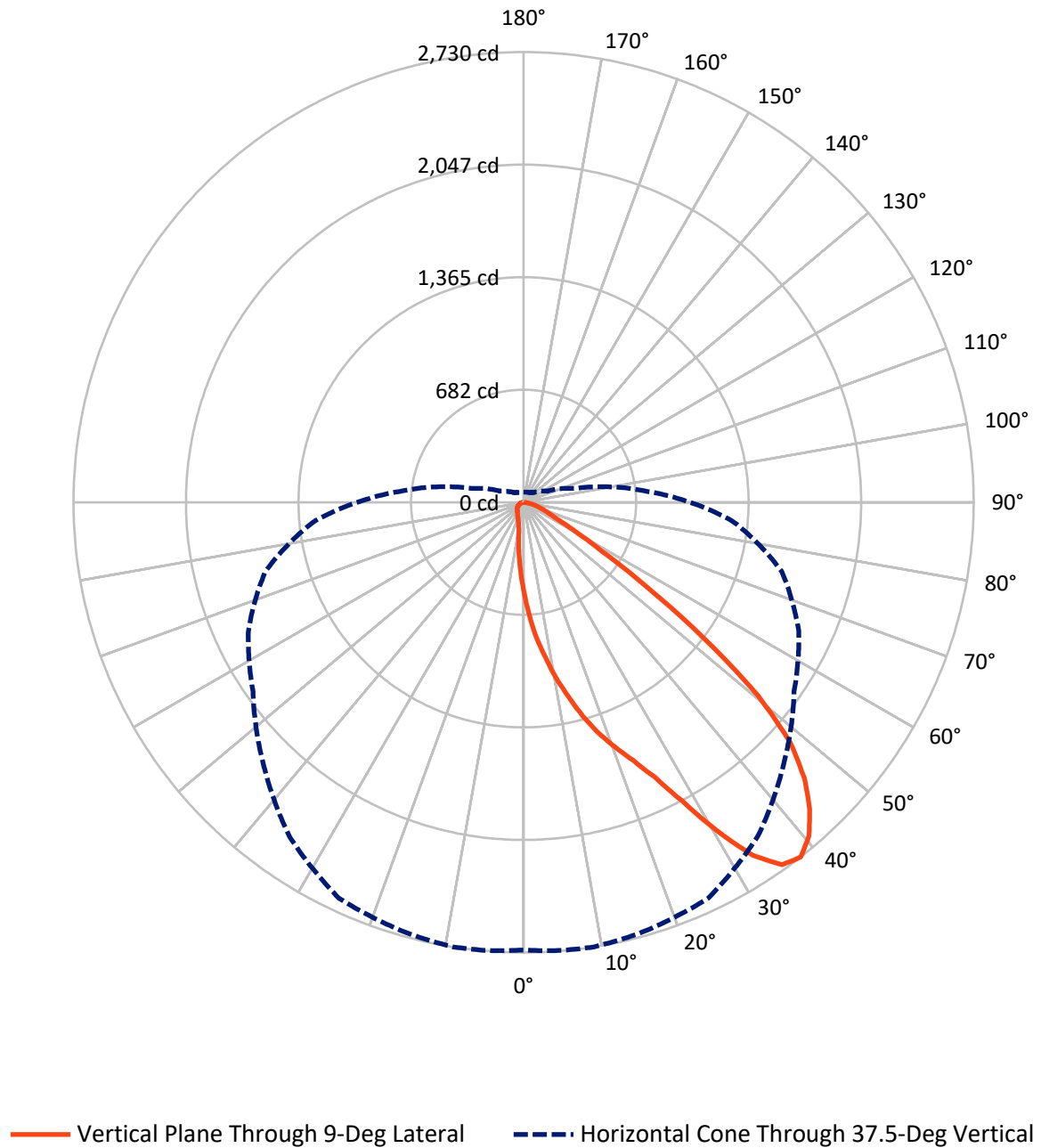


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.2	0.0	509.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3677.8	0.0	3677.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4187.0	0.0	4187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.3
10°-20°	193.4	4.6
20°-30°	397.3	9.5
30°-40°	702.3	16.8
40°-50°	932.9	22.3
50°-60°	884.8	21.1
60°-70°	675.0	16.1
70°-80°	327.3	7.8
80°-90°	18.4	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°	4187.0	100.0
0°-180°	4187.0	100.0

Coefficient of Utilization



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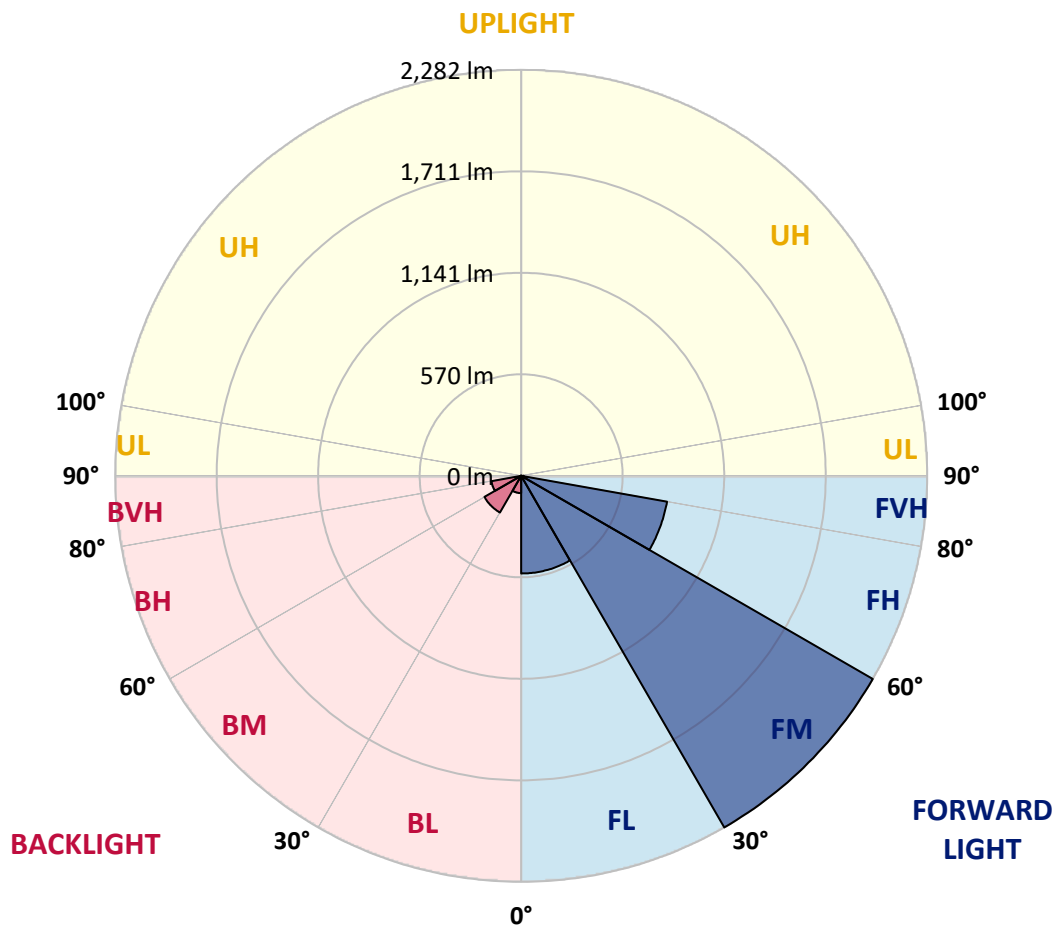
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.1	13.1			
FM	(30°-60°)	2281.7	54.5			
FH	(60°-80°)	832.4	19.9			G1/1800
FVH	(80°-90°)	14.6	0.3			G1/100
BL	(0°-30°)	97.2	2.3	B0/110		
BM	(30°-60°)	238.3	5.7	B1/1000		
BH	(60°-80°)	169.9	4.1	B1/500		G1/500
BVH	(80°-90°)	3.8	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°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	685.8	673.8	687.5	685.8	673.8	666.1	642.0	634.3	605.9	585.3	567.2
5°	826.8	814.7	826.8	823.3	806.1	787.2	747.7	721.9	671.2	626.5	586.1
7.5°	943.7	943.7	948.8	949.7	929.0	899.8	850.8	812.2	740.8	672.1	607.6
10°	1070.0	1070.8	1082.0	1074.3	1046.8	1007.2	945.4	896.4	810.4	720.2	628.2
12.5°	1204.9	1205.8	1209.2	1205.8	1173.1	1122.4	1047.6	983.2	884.3	775.2	656.6
15°	1339.8	1340.7	1345.0	1339.0	1302.9	1243.6	1158.5	1079.4	962.6	837.1	691.0
17.5°	1466.2	1467.9	1471.3	1463.6	1425.8	1355.3	1268.5	1173.1	1045.9	903.3	729.7
20°	1579.6	1581.3	1583.9	1573.6	1535.8	1465.3	1371.6	1272.0	1131.0	971.2	771.8
22.5°	1693.9	1695.6	1699.9	1686.2	1644.1	1563.3	1471.3	1368.2	1221.2	1045.9	820.8
25°	1840.0	1841.8	1845.2	1825.4	1767.8	1673.3	1576.2	1470.5	1319.2	1130.1	880.9
27.5°	2054.0	2052.3	2052.3	2016.2	1917.4	1794.5	1681.9	1574.5	1424.9	1220.4	947.1
30°	2318.7	2314.4	2311.9	2262.9	2121.9	1931.1	1790.2	1671.6	1526.3	1315.8	1018.4
32.5°	2555.9	2555.9	2550.8	2499.2	2349.7	2115.0	1905.3	1766.1	1624.3	1412.0	1092.3
35°	2696.0	2702.0	2699.5	2660.8	2551.6	2312.7	2060.9	1879.6	1727.4	1512.6	1180.9
37.5°	2714.9	2727.0	2729.5	2706.3	2648.8	2474.3	2233.6	2002.5	1840.9	1620.9	1266.8
40°	2638.4	2664.2	2664.2	2660.8	2640.2	2550.8	2378.9	2145.1	1957.8	1733.5	1353.6
42.5°	2520.7	2547.3	2543.9	2556.8	2551.6	2532.7	2460.5	2278.3	2074.7	1849.5	1432.7
45°	2366.9	2394.4	2387.5	2410.7	2421.0	2441.6	2451.9	2371.2	2189.8	1975.8	1521.2
47.5°	2120.2	2166.6	2176.9	2218.2	2261.2	2325.6	2374.6	2404.7	2297.2	2111.6	1617.4
50°	1755.8	1821.1	1841.8	1928.6	2046.3	2179.5	2258.6	2363.4	2372.9	2250.8	1721.4
52.5°	1257.3	1333.0	1364.8	1507.4	1749.8	1981.8	2124.5	2272.3	2402.1	2384.0	1834.0
55°	813.0	877.5	908.4	1042.5	1364.8	1729.2	1966.4	2154.6	2385.8	2506.1	1962.9
57.5°	501.0	538.0	558.6	673.8	970.3	1405.2	1759.2	2046.3	2335.9	2611.8	2097.0
60°	337.8	359.2	369.6	423.7	659.2	1050.2	1474.8	1932.9	2270.6	2683.1	2219.0
62.5°	224.3	231.2	241.5	275.0	434.9	737.4	1132.7	1730.0	2221.6	2687.4	2309.3
65°	173.6	177.0	181.3	195.9	268.1	515.7	796.7	1401.7	2148.6	2596.3	2337.6
67.5°	136.6	140.1	145.2	153.0	194.2	349.8	542.3	1027.0	1999.0	2453.7	2291.2
70°	107.4	110.0	113.4	120.3	151.3	253.5	358.4	682.4	1697.4	2317.9	2145.1
72.5°	85.1	87.7	91.1	98.0	122.9	185.6	245.8	425.4	1308.9	2152.0	1864.1
75°	67.0	68.8	71.3	78.2	98.8	144.4	166.7	254.4	889.5	1848.6	1452.4
77.5°	33.5	41.3	47.3	54.1	72.2	99.7	110.9	140.9	375.6	948.8	692.7
80°	19.8	24.1	25.8	30.1	47.3	60.2	60.2	56.7	118.6	364.4	282.8
82.5°	11.2	15.5	16.3	17.2	28.4	34.4	27.5	20.6	24.1	122.0	82.5
85°	3.4	5.2	6.0	6.9	9.5	10.3	9.5	8.6	6.9	12.0	7.7
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	1.7	1.7	2.6	2.6	2.6
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°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	556.9	545.7	524.3	504.5	485.6	471.8	458.9	446.9	438.3	431.4	430.6
5°	564.6	542.3	501.0	462.4	427.1	397.9	373.0	353.2	338.6	328.3	327.4
7.5°	575.0	540.6	477.8	420.3	367.8	325.7	289.6	263.0	244.1	236.3	230.3
10°	583.6	538.9	454.6	378.1	309.4	256.1	213.1	186.5	172.7	167.6	165.0
12.5°	598.2	540.6	434.9	339.5	258.7	195.9	163.3	148.7	142.7	138.4	137.5
15°	619.6	548.3	416.0	301.7	207.1	158.1	139.2	129.8	123.8	122.9	122.0
17.5°	641.1	555.2	398.8	263.0	171.9	137.5	124.6	116.9	112.6	111.7	111.7
20°	666.1	563.8	379.9	226.0	147.0	123.8	113.4	107.4	102.3	101.4	101.4
22.5°	695.3	575.8	361.8	193.4	130.6	113.4	104.9	98.0	93.7	92.8	92.8
25°	734.8	593.9	347.2	169.3	119.5	104.9	97.1	91.1	87.7	85.9	85.9
27.5°	778.6	618.8	336.9	154.7	111.7	98.0	90.2	85.1	81.6	79.9	79.9
30°	827.6	646.3	330.0	148.7	107.4	92.0	85.1	79.9	75.6	74.8	74.8
32.5°	881.8	678.1	325.7	149.5	106.6	87.7	79.9	74.8	71.3	69.6	69.6
35°	941.9	713.3	323.1	154.7	108.3	84.2	75.6	70.5	67.0	65.3	65.3
37.5°	1009.0	754.6	323.1	159.9	112.6	83.4	71.3	66.2	63.6	61.9	61.9
40°	1071.7	798.4	326.6	165.9	116.9	83.4	67.9	63.6	60.2	58.4	58.4
42.5°	1120.7	823.3	329.2	171.9	119.5	82.5	64.5	60.2	57.6	55.9	55.9
45°	1176.6	850.0	324.0	174.5	119.5	80.8	61.9	57.6	55.0	53.3	53.3
47.5°	1238.4	882.6	323.1	176.2	116.9	77.3	59.3	55.0	53.3	51.6	51.6
50°	1301.2	918.7	324.9	175.3	113.4	72.2	55.9	53.3	50.7	49.0	49.0
52.5°	1372.5	956.5	328.3	173.6	105.7	66.2	53.3	50.7	48.1	46.4	45.5
55°	1451.6	997.8	335.2	170.2	95.4	60.2	50.7	48.1	44.7	43.0	42.1
57.5°	1542.7	1048.5	342.9	163.3	84.2	55.0	48.1	44.7	39.5	37.0	36.1
60°	1629.5	1106.1	351.5	147.0	73.1	49.8	45.5	40.4	35.2	33.5	32.7
62.5°	1711.1	1162.8	355.8	117.7	61.9	45.5	43.0	37.0	31.8	30.1	29.2
65°	1763.5	1224.7	346.3	79.9	50.7	42.1	39.5	34.4	29.2	26.6	26.6
67.5°	1767.0	1253.9	313.7	52.4	41.3	37.8	36.1	30.9	25.8	24.1	23.2
70°	1680.2	1210.1	239.8	41.3	34.4	32.7	32.7	27.5	22.3	20.6	19.8
72.5°	1480.8	1071.7	153.0	33.5	29.2	27.5	27.5	23.2	19.8	17.2	16.3
75°	1168.8	826.8	81.6	27.5	24.1	23.2	21.5	18.9	16.3	14.6	13.8
77.5°	537.1	364.4	37.8	19.8	18.0	18.0	16.3	13.8	12.9	11.2	11.2
80°	212.3	123.8	18.9	12.9	12.0	12.0	12.0	9.5	9.5	7.7	6.9
82.5°	58.4	25.8	9.5	7.7	7.7	7.7	6.9	6.0	6.0	5.2	5.2
85°	6.0	4.3	4.3	4.3	4.3	3.4	3.4	2.6	1.7	1.7	1.7
87.5°	2.6	2.6	2.6	2.6	2.6	1.7	0.9	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)