

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: P1209929

Luminaire Tested: **ARCH1-20-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

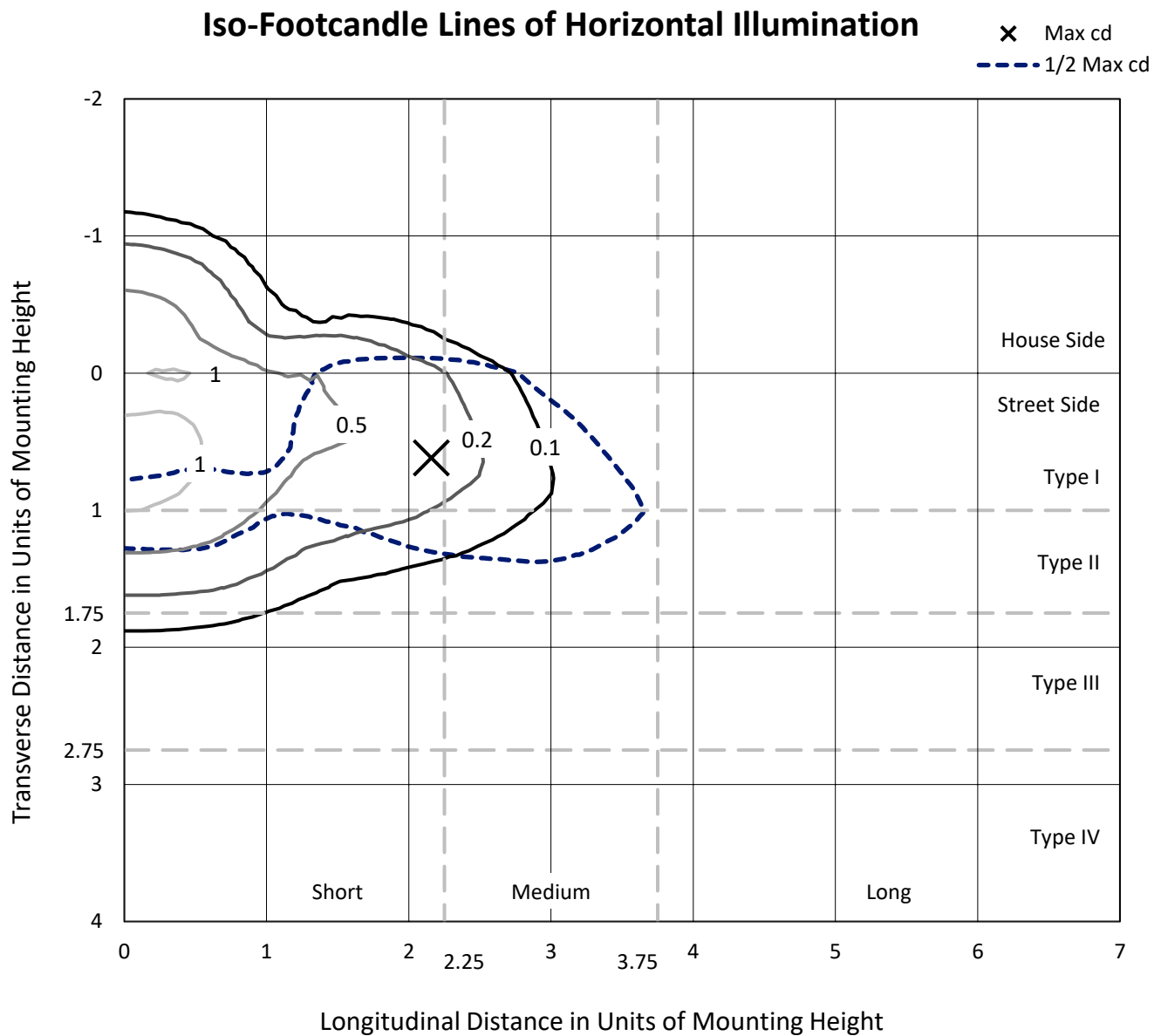
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700 lumens
Efficiency: N/A
Efficacy: 157.4 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): 23.5
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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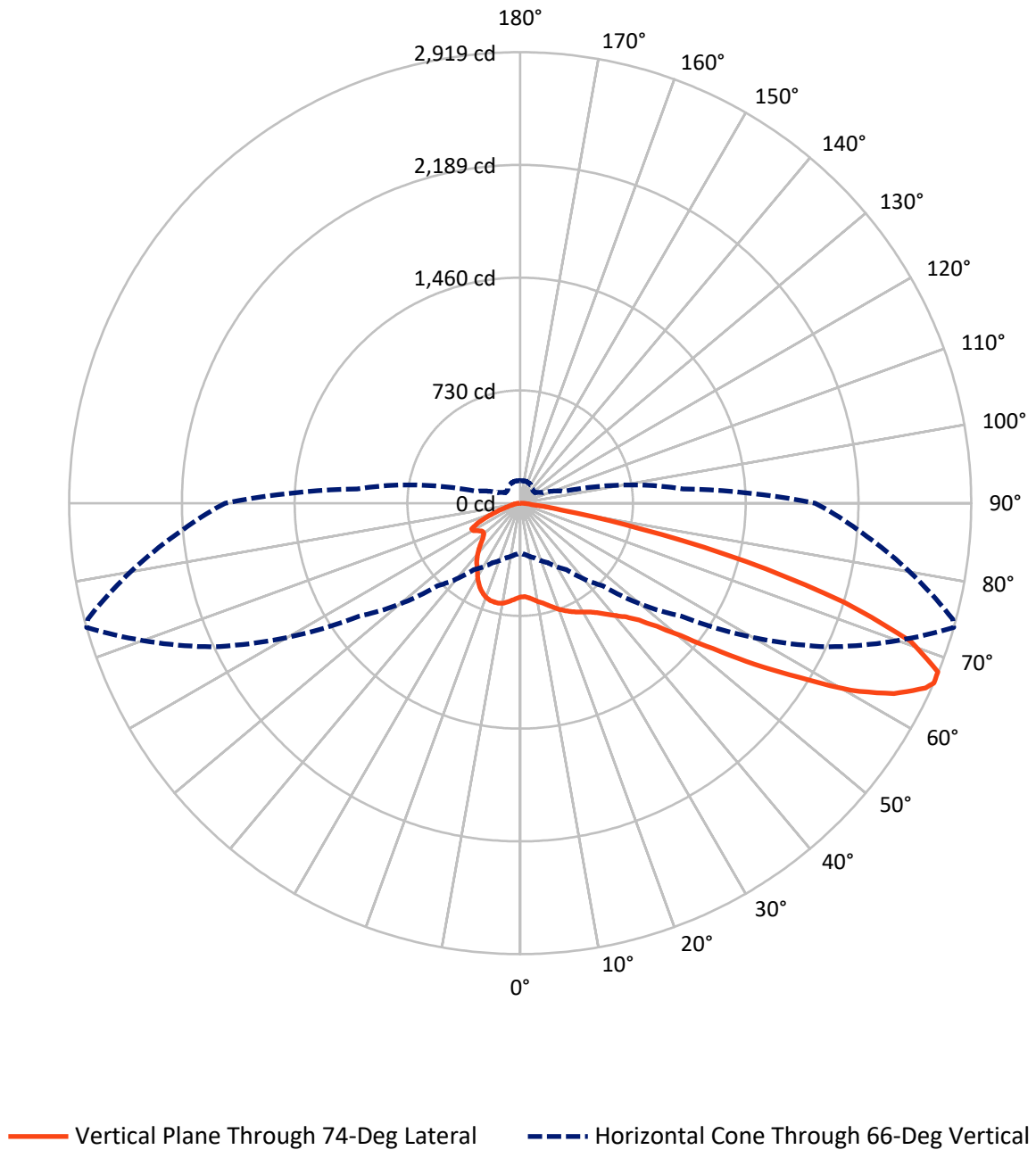


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	901.1	0.0	901.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	2799.0	0.0	2799.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	3700.0	0.0	3700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.6
10°-20°	177.9	4.8
20°-30°	333.9	9.0
30°-40°	513.6	13.9
40°-50°	690.8	18.7
50°-60°	817.0	22.1
60°-70°	755.8	20.4
70°-80°	318.0	8.6
80°-90°	35.2	1.0
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°	3700.0	100.0
0°-180°	3700.0	100.0

Coefficient of Utilization



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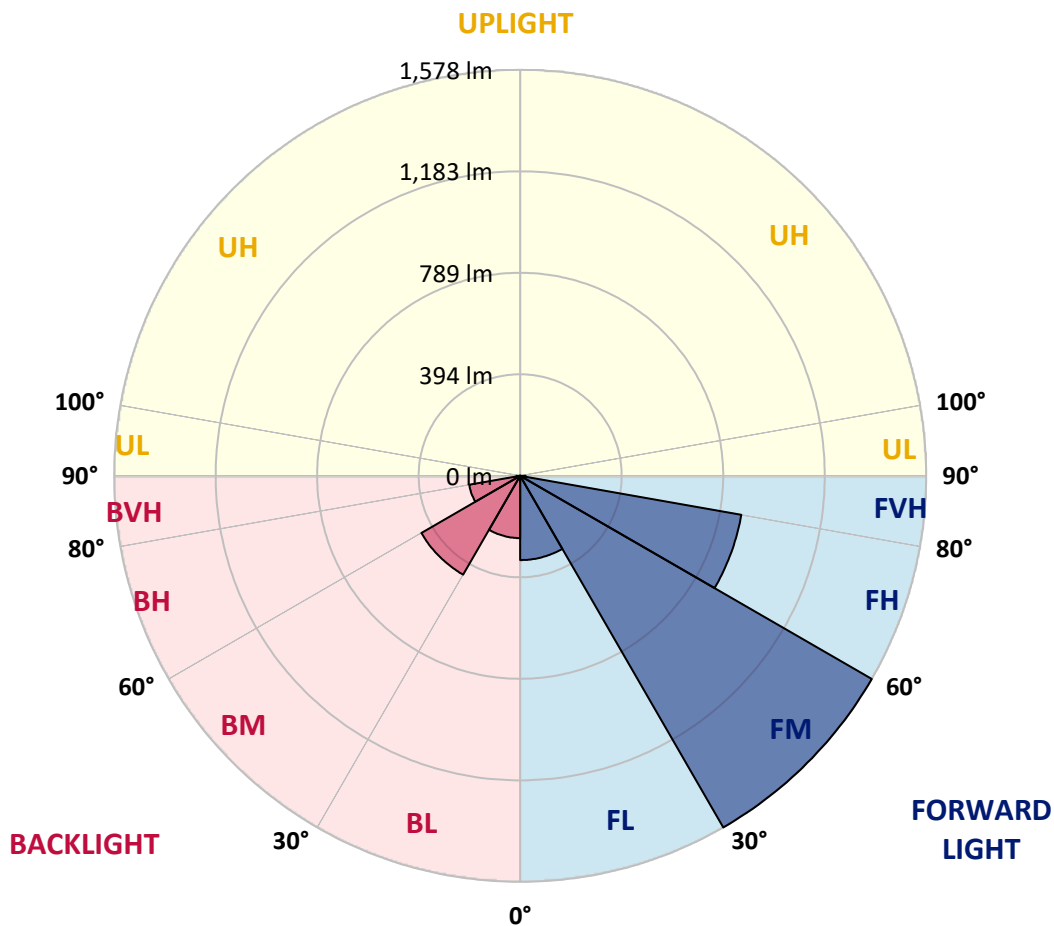
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.5	8.9			
FM	(30°-60°)	1577.8	42.6			
FH	(60°-80°)	872.6	23.6			G1/1800
FVH	(80°-90°)	21.1	0.6			G1/100
BL	(0°-30°)	242.2	6.5	B1/500		
BM	(30°-60°)	443.6	12.0	B1/1000		
BH	(60°-80°)	201.2	5.4	B1/500		G1/500
BVH	(80°-90°)	14.1	0.4			G1/100
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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
2.5°	604.6	603.7	605.6	608.5	609.9	607.5	606.6	606.1	606.1	604.6	607.0
5°	576.1	575.6	579.9	585.1	595.1	602.3	611.8	617.5	615.6	612.7	614.6
7.5°	538.9	538.0	543.2	553.2	567.0	582.7	606.1	624.2	631.3	630.4	629.9
10°	553.2	552.3	551.8	548.9	553.7	568.9	593.2	625.1	649.4	649.9	650.4
12.5°	602.7	605.1	602.7	593.7	583.2	577.5	591.8	627.5	664.6	667.5	679.4
15°	670.4	668.0	663.2	652.7	636.5	619.4	608.9	638.5	686.5	688.9	715.1
17.5°	729.9	731.8	728.9	718.9	699.9	677.5	645.6	657.5	709.9	716.5	753.2
20°	794.6	802.2	798.4	786.0	770.3	737.0	697.0	685.1	735.6	740.3	792.7
22.5°	869.4	877.5	870.3	858.4	845.6	804.6	753.2	718.9	757.0	767.0	830.8
25°	958.9	966.5	959.8	941.3	925.1	875.1	813.7	757.0	777.9	788.9	861.7
27.5°	1029.8	1035.5	1041.7	1030.8	1006.0	954.1	876.5	796.5	798.9	810.3	890.3
30°	1093.1	1107.4	1112.6	1114.1	1093.1	1035.0	940.8	837.5	817.0	828.9	918.9
32.5°	1179.8	1201.2	1192.6	1201.2	1188.8	1111.2	1007.4	879.8	840.3	851.3	946.0
35°	1306.4	1323.6	1301.2	1294.5	1274.5	1188.3	1071.7	923.6	871.3	883.2	971.7
37.5°	1442.6	1462.1	1429.7	1403.1	1365.0	1264.5	1126.9	981.2	914.1	923.6	995.5
40°	1561.6	1577.8	1549.7	1514.5	1450.7	1331.7	1174.5	1021.7	957.0	968.9	1023.1
42.5°	1671.6	1682.1	1650.6	1616.8	1531.6	1392.1	1226.0	1064.6	1007.0	1018.4	1045.5
45°	1783.0	1791.1	1747.3	1699.2	1599.2	1447.3	1282.6	1124.6	1080.3	1095.5	1081.7
47.5°	1803.0	1805.4	1797.8	1765.4	1652.5	1500.2	1352.6	1205.0	1192.2	1208.8	1144.1
50°	1664.5	1685.9	1733.0	1764.9	1674.0	1544.5	1422.6	1320.2	1346.4	1367.8	1273.6
52.5°	1395.5	1415.9	1525.0	1645.9	1622.6	1554.5	1497.8	1466.4	1564.0	1589.7	1449.7
55°	1111.7	1129.8	1245.0	1419.3	1456.4	1508.8	1578.3	1653.0	1841.6	1858.7	1643.0
57.5°	915.5	925.5	1007.9	1175.5	1235.0	1362.6	1621.6	1874.9	2123.9	2150.1	1811.1
60°	750.8	761.8	823.2	961.2	1040.3	1153.6	1587.3	2093.9	2461.0	2461.0	2026.8
62.5°	565.1	574.7	631.8	739.9	872.7	976.5	1477.8	2239.1	2715.2	2703.8	2182.9
65°	388.0	395.6	437.1	509.0	628.5	832.2	1328.3	2241.0	2883.7	2868.5	2249.6
66°	325.7	332.3	367.6	425.6	526.1	755.1	1275.5	2200.5	2919.0	2897.6	2221.5
67.5°	257.1	261.9	285.2	319.5	385.6	611.3	1192.2	2085.8	2915.6	2902.8	2150.1
70°	183.8	187.1	204.2	211.4	228.1	353.7	947.0	1826.8	2681.9	2685.7	1869.2
72.5°	142.4	147.6	158.1	159.5	155.7	188.1	574.7	1524.0	2193.9	2192.4	1387.4
75°	114.7	117.6	122.8	125.7	124.7	121.4	243.3	1136.9	1510.2	1527.8	777.0
77.5°	90.5	90.0	94.7	98.6	101.4	95.2	111.4	666.5	791.8	769.4	291.9
80°	66.7	66.7	73.3	74.7	79.0	80.0	74.3	257.1	271.9	247.1	75.7
82.5°	43.8	43.8	50.9	51.9	56.2	62.4	53.8	77.1	75.2	71.4	34.3
85°	23.8	22.9	25.2	28.6	30.9	36.7	32.4	38.6	39.5	39.0	22.9
87.5°	4.8	4.3	6.7	7.6	8.6	11.4	10.5	15.7	21.9	21.4	10.0
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°	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
2.5°	610.4	609.9	615.1	621.3	628.5	632.7	634.6	638.0	635.6	636.5	639.4
5°	619.4	620.8	628.5	636.5	639.9	637.5	632.3	630.4	626.1	625.1	624.2
7.5°	632.7	635.1	642.7	644.6	634.6	618.0	606.1	599.4	592.3	590.4	589.4
10°	654.6	656.1	658.0	638.5	613.7	591.3	576.6	570.4	565.6	561.8	562.8
12.5°	682.3	681.3	666.5	626.1	590.8	568.0	558.0	554.2	550.8	548.5	548.0
15°	717.0	710.3	668.0	608.9	569.4	550.4	543.2	541.8	538.0	538.0	537.5
17.5°	752.2	735.1	667.0	590.8	548.9	538.5	534.2	533.2	532.3	531.8	533.2
20°	787.5	757.0	659.4	568.5	534.7	528.5	527.5	528.0	527.0	528.5	527.5
22.5°	818.4	771.3	645.1	544.7	524.7	524.2	521.8	522.8	526.1	526.6	528.0
25°	842.2	776.5	624.2	522.8	517.5	516.6	519.4	523.2	526.1	526.6	528.9
27.5°	861.7	773.7	598.0	505.6	505.1	510.4	519.0	520.4	520.9	520.9	519.0
30°	876.5	767.5	564.7	486.6	489.0	501.8	509.9	509.9	506.1	505.1	508.0
32.5°	879.8	759.4	528.5	467.1	470.9	486.1	496.1	492.8	488.5	488.5	490.4
35°	882.7	748.4	499.4	440.4	446.1	464.2	473.7	467.1	462.3	460.9	460.4
37.5°	881.7	744.1	473.2	406.6	414.2	431.8	438.0	431.8	424.7	421.3	425.6
40°	882.7	741.3	440.4	369.5	377.1	387.5	395.6	390.9	384.2	375.6	379.9
42.5°	888.4	745.1	404.2	333.3	333.3	339.0	352.8	349.5	333.3	329.9	333.7
45°	918.9	765.6	368.0	297.1	291.9	295.7	309.9	295.7	285.7	285.7	289.0
47.5°	992.7	803.7	336.1	265.2	252.8	260.4	264.2	250.9	243.3	241.4	244.7
50°	1143.1	879.8	317.1	239.0	223.8	229.5	227.1	226.6	219.0	220.0	221.9
52.5°	1371.6	1028.4	311.4	226.1	207.1	208.5	206.2	207.1	205.7	210.4	211.9
55°	1620.6	1185.0	318.5	228.1	195.7	185.7	186.6	191.4	197.1	204.7	206.2
57.5°	1806.8	1263.6	337.1	240.9	181.4	166.2	168.5	177.6	188.5	194.7	198.1
60°	1945.3	1254.1	364.2	244.2	164.3	148.5	152.8	166.2	175.7	180.9	184.3
62.5°	1990.6	1194.5	370.9	220.0	141.9	131.9	142.4	156.2	160.4	166.2	168.5
65°	1953.4	1110.3	322.3	178.5	124.7	119.5	134.7	145.2	150.9	153.8	154.3
66°	1909.6	1059.8	296.1	162.4	118.5	115.7	131.9	140.4	146.2	145.7	146.2
67.5°	1813.5	954.1	253.8	139.5	109.5	110.0	127.1	132.8	134.7	133.3	133.3
70°	1486.4	671.8	181.9	105.7	96.2	102.8	114.3	115.7	120.0	118.1	118.1
72.5°	916.5	329.9	121.9	80.9	85.7	96.2	95.7	100.5	110.5	113.3	115.2
75°	450.4	133.8	80.5	68.6	76.7	80.5	79.5	91.4	105.7	118.1	122.4
77.5°	170.9	66.7	56.2	60.0	61.9	60.5	63.3	82.8	105.7	128.1	132.4
80°	52.8	46.2	44.3	49.5	46.7	44.3	47.6	68.6	89.5	97.1	97.1
82.5°	31.9	36.2	34.3	33.8	31.4	31.9	34.3	49.0	69.0	72.4	72.4
85°	22.4	23.8	19.5	18.6	18.1	17.6	17.6	28.6	40.9	40.5	41.9
87.5°	8.6	9.5	7.1	7.1	6.7	4.8	3.8	4.8	4.8	3.3	2.4
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)