

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: P1211548

Luminaire Tested: **ARCH4-40-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5305 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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

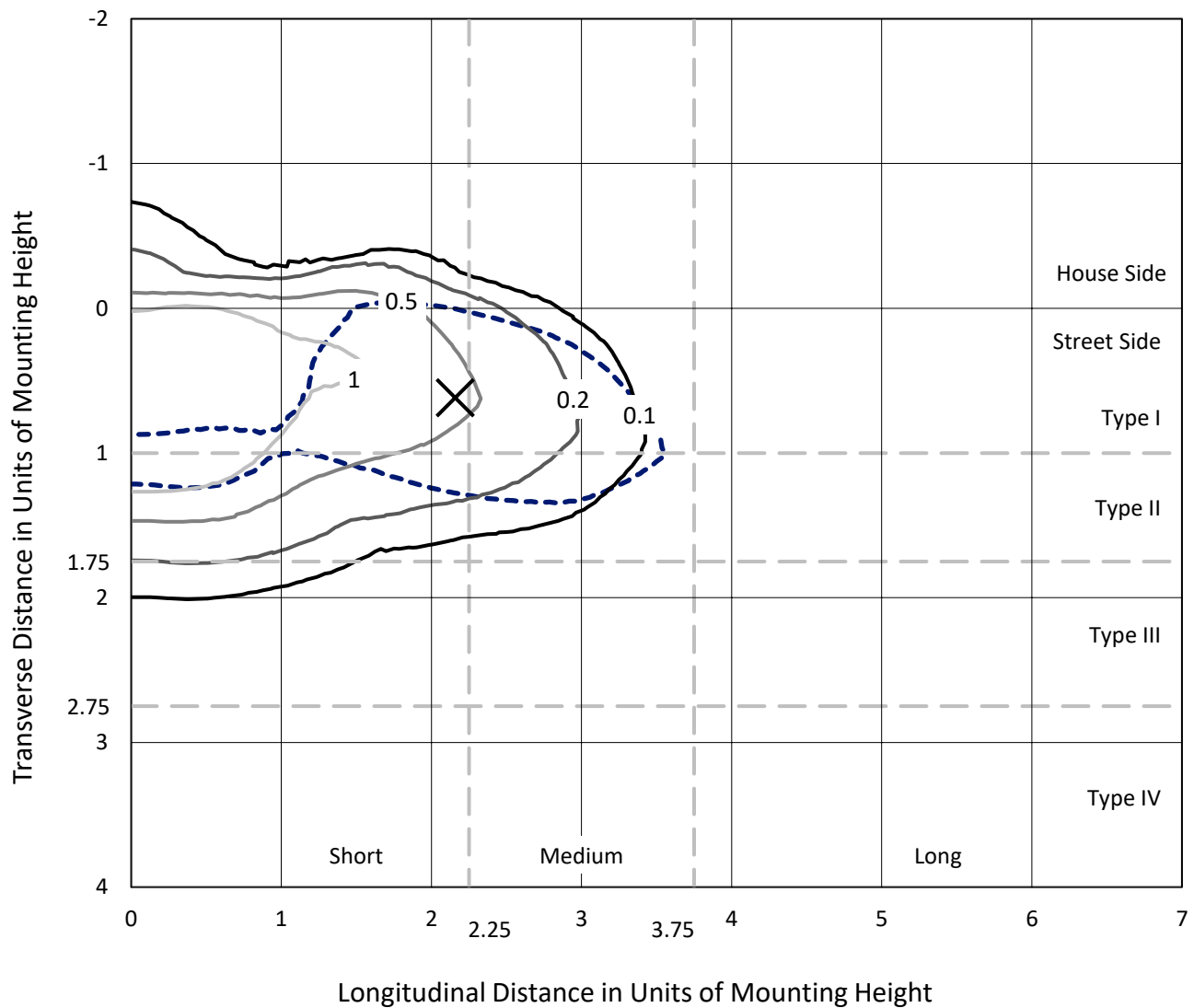


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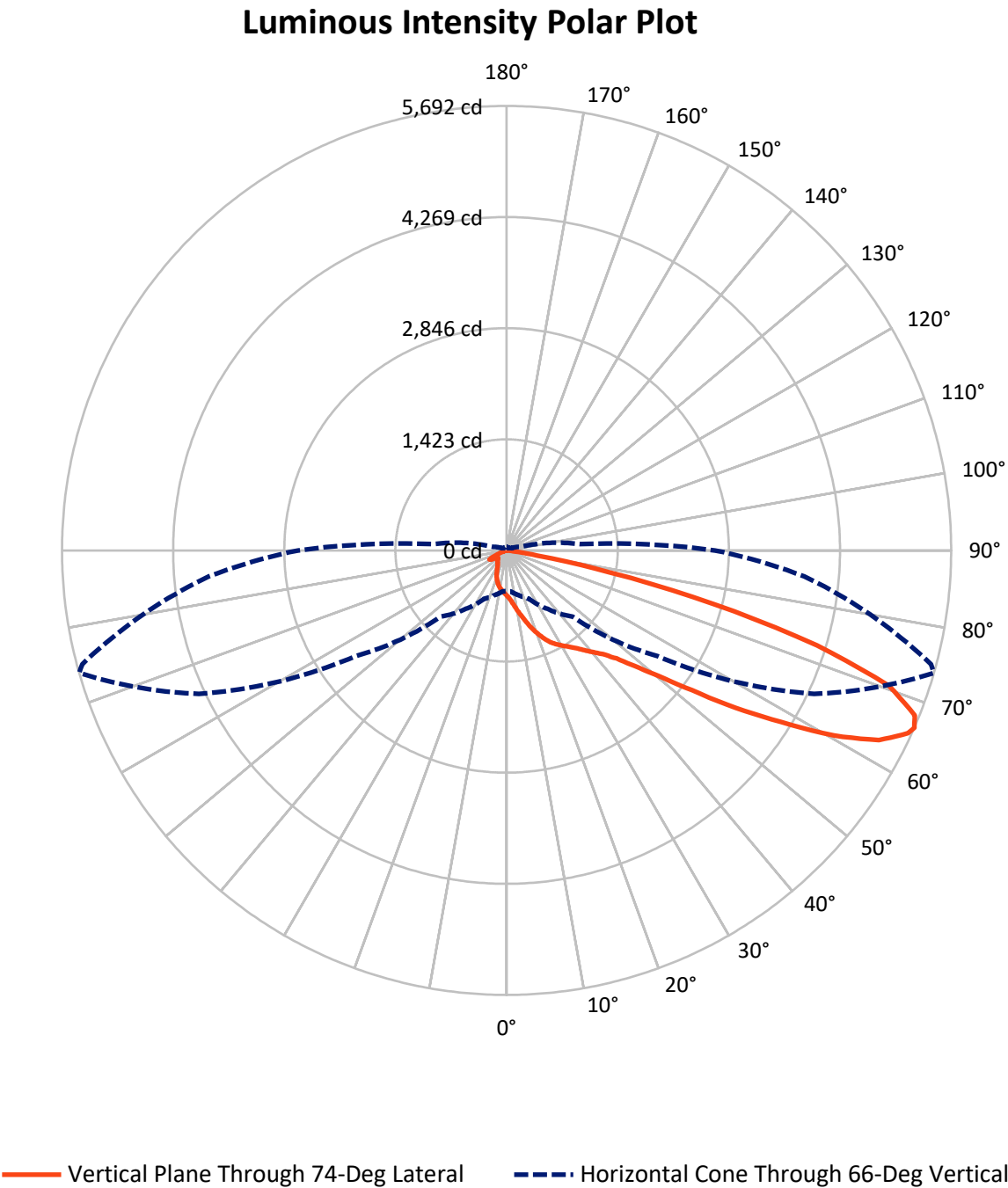
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.1	0.0	520.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4784.9	0.0	4784.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	5305.0	0.0	5305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.1
10°-20°	181.2	3.4
20°-30°	345.8	6.5
30°-40°	606.1	11.4
40°-50°	1039.3	19.6
50°-60°	1351.8	25.5
60°-70°	1223.7	23.1
70°-80°	472.2	8.9
80°-90°	28.4	0.5
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°	5305.0	100.0
0°-180°	5305.0	100.0

Coefficient of Utilization



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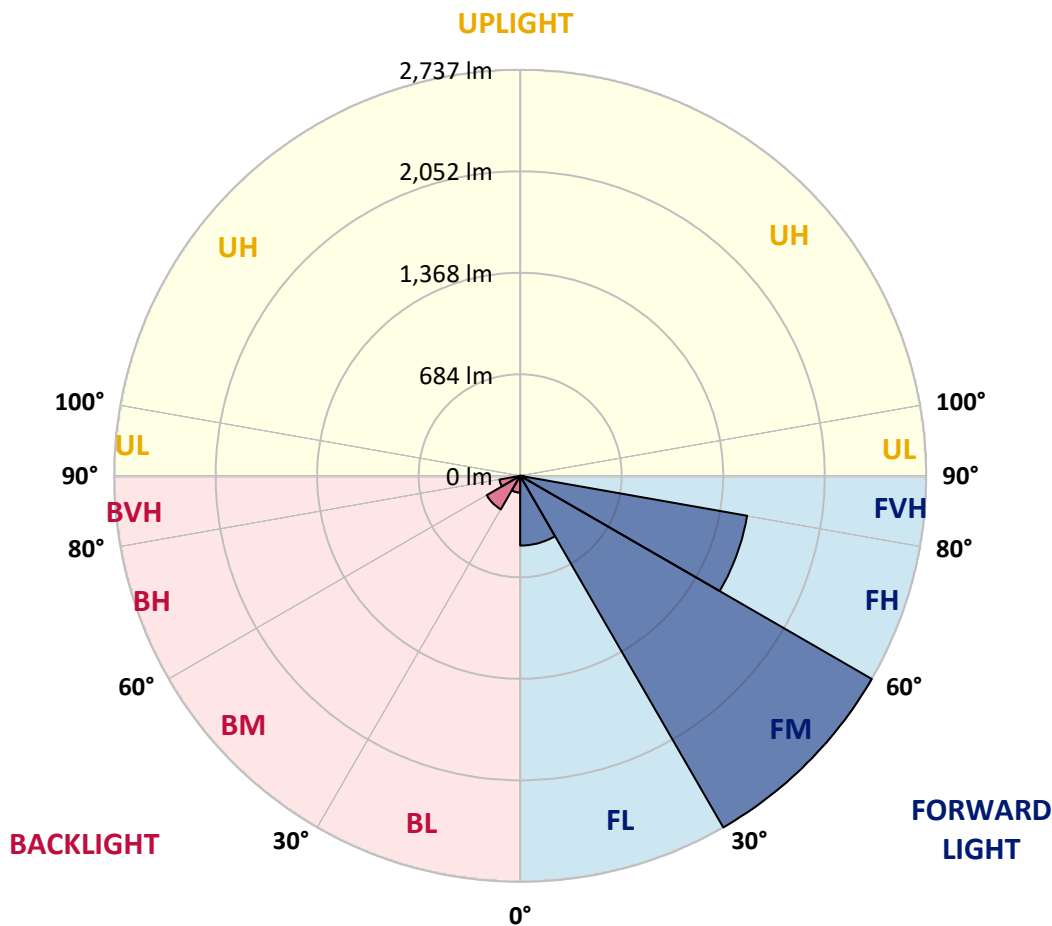
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.1	8.9			
FM	(30°-60°)	2736.6	51.6			
FH	(60°-80°)	1553.7	29.3			G1/1800
FVH	(80°-90°)	24.6	0.5			G1/100
BL	(0°-30°)	113.4	2.1	B1/500		
BM	(30°-60°)	260.6	4.9	B1/1000		
BH	(60°-80°)	142.2	2.7	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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	695.3	689.6	679.1	678.1	669.6	659.1	641.0	621.9	608.6	606.7	590.5
5°	832.4	829.6	819.1	812.4	796.2	771.5	729.6	687.7	652.4	648.6	612.4
7.5°	868.6	870.5	872.4	879.1	873.4	862.0	830.5	771.5	716.2	707.7	644.8
10°	874.3	872.4	872.4	881.0	897.2	913.4	909.6	859.1	787.7	777.2	689.6
12.5°	936.3	939.1	932.4	928.6	925.8	934.3	962.9	941.0	862.9	854.3	743.9
15°	1016.3	1015.3	1005.8	1005.8	997.2	982.9	1001.0	1017.2	953.4	942.9	805.8
17.5°	1074.4	1078.2	1077.2	1082.9	1080.1	1061.0	1051.5	1084.8	1046.7	1033.4	876.2
20°	1121.0	1131.5	1135.3	1153.4	1162.0	1148.6	1123.9	1144.8	1136.3	1123.9	947.7
22.5°	1170.6	1179.1	1185.8	1217.2	1241.0	1238.2	1206.7	1202.0	1222.9	1211.5	1018.2
25°	1220.1	1223.9	1243.9	1282.0	1320.1	1329.6	1297.2	1260.1	1301.0	1290.6	1081.0
27.5°	1274.4	1276.3	1300.1	1346.8	1400.1	1420.1	1394.4	1325.8	1361.0	1361.0	1138.2
30°	1373.4	1392.5	1402.0	1443.9	1490.6	1518.2	1487.7	1395.3	1414.4	1423.0	1198.2
32.5°	1586.8	1589.6	1586.8	1604.9	1614.4	1630.6	1595.3	1473.4	1468.7	1478.2	1257.2
35°	1912.5	1901.1	1870.6	1843.9	1788.7	1758.2	1712.5	1573.4	1535.3	1548.7	1315.3
37.5°	2307.8	2291.6	2222.1	2140.1	2022.0	1900.1	1843.0	1695.4	1620.1	1637.3	1378.2
40°	2684.9	2674.5	2591.6	2490.6	2288.7	2080.1	1959.2	1798.2	1714.4	1721.1	1442.0
42.5°	2995.4	2993.5	2924.0	2818.3	2559.2	2274.4	2096.3	1899.2	1813.5	1823.9	1508.7
45°	3230.7	3212.6	3161.2	3085.0	2821.1	2476.4	2262.1	2052.5	1972.5	1984.9	1608.7
47.5°	3230.7	3233.6	3266.9	3259.3	3004.0	2665.9	2443.0	2245.9	2207.8	2219.2	1773.5
50°	2967.8	2994.5	3143.1	3267.8	3099.3	2813.5	2638.3	2487.8	2526.8	2544.0	2061.1
52.5°	2447.8	2492.5	2750.7	3035.4	3028.8	2887.8	2840.2	2795.4	2970.7	3001.2	2485.9
55°	1860.1	1889.7	2225.9	2600.2	2722.1	2826.9	3016.4	3185.9	3558.3	3551.7	2917.3
57.5°	1389.6	1417.2	1706.8	2122.0	2283.0	2563.0	3106.9	3632.6	4141.2	4166.9	3322.1
60°	1022.0	1042.9	1289.6	1630.6	1863.0	2159.2	3070.7	4072.7	4812.7	4783.2	3679.3
62.5°	756.2	767.7	945.8	1167.7	1476.3	1759.2	2843.0	4373.6	5348.9	5288.9	3878.4
65°	584.8	588.6	681.0	799.1	1073.4	1367.7	2504.0	4419.3	5645.1	5581.3	3874.5
66°	521.0	523.8	591.5	682.9	913.4	1197.2	2355.4	4346.0	5691.8	5624.2	3826.9
67.5°	437.2	435.3	475.3	535.3	685.8	923.9	2091.6	4131.7	5636.6	5602.3	3674.5
70°	323.8	324.8	344.8	359.1	401.0	511.5	1510.6	3584.1	5194.6	5192.7	3256.4
72.5°	240.0	242.9	258.1	261.0	250.5	277.2	870.5	2850.7	4155.5	4156.5	2434.4
75°	180.0	184.8	189.5	191.4	181.9	175.2	393.4	1918.2	2733.5	2713.5	1378.2
77.5°	137.2	139.1	142.9	140.0	138.1	121.0	163.8	935.3	1349.6	1229.6	446.7
80°	100.0	100.0	103.8	100.0	99.1	86.7	89.5	300.0	396.2	329.5	96.2
82.5°	62.9	61.9	64.8	63.8	61.9	55.2	52.4	83.8	91.4	81.9	46.7
85°	35.2	34.3	33.3	32.4	29.5	24.8	28.6	31.4	41.9	42.9	33.3
87.5°	12.4	12.4	11.4	10.5	8.6	8.6	10.5	10.5	15.2	15.2	17.1
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°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	582.9	572.4	557.2	537.2	522.9	508.6	493.4	484.8	472.4	469.6	473.4
5°	593.4	574.3	536.2	494.3	458.1	425.7	395.3	377.2	359.1	352.4	355.3
7.5°	615.3	582.9	518.1	450.5	390.5	341.9	305.7	284.8	268.6	261.9	263.8
10°	647.7	598.1	501.0	401.0	323.8	272.4	241.9	228.6	219.1	215.3	216.2
12.5°	686.7	620.0	479.1	351.5	266.7	221.9	207.6	204.8	202.9	201.0	201.9
15°	730.5	639.1	453.4	302.9	221.9	197.2	192.4	191.4	190.5	190.5	190.5
17.5°	776.2	656.2	424.8	257.2	193.3	181.9	179.1	179.1	179.1	180.0	180.0
20°	819.1	669.6	391.5	216.2	177.2	167.6	165.7	165.7	166.7	167.6	167.6
22.5°	861.0	675.3	352.4	187.6	163.8	155.2	152.4	152.4	152.4	153.3	153.3
25°	897.2	675.3	313.4	169.5	152.4	143.8	140.0	139.1	140.0	140.0	140.0
27.5°	927.7	672.4	275.3	157.2	141.0	132.4	128.6	127.6	129.5	130.5	130.5
30°	960.1	668.6	244.8	145.7	131.4	122.9	119.1	119.1	121.9	125.7	125.7
32.5°	991.5	671.5	221.0	136.2	121.9	115.2	111.4	112.4	118.1	123.8	123.8
35°	1024.8	677.2	206.7	129.5	115.2	108.6	105.7	108.6	114.3	120.0	120.0
37.5°	1058.2	683.9	198.1	123.8	109.5	102.9	101.0	104.8	111.4	117.2	118.1
40°	1093.4	689.6	188.6	118.1	105.7	98.1	97.1	101.0	109.5	115.2	116.2
42.5°	1137.2	701.0	177.2	113.3	101.9	92.4	93.3	96.2	104.8	113.3	114.3
45°	1222.9	737.2	165.7	108.6	97.1	89.5	87.6	89.5	99.1	108.6	110.5
47.5°	1383.9	819.1	153.3	103.8	92.4	87.6	80.0	81.9	90.5	101.0	101.9
50°	1692.5	993.4	146.7	99.1	88.6	81.0	72.4	72.4	79.1	88.6	88.6
52.5°	2173.5	1305.8	150.5	95.2	83.8	74.3	65.7	64.8	68.6	75.2	75.2
55°	2692.6	1648.7	164.8	91.4	78.1	70.5	61.0	56.2	59.1	62.9	62.9
57.5°	3104.0	1821.1	203.8	89.5	71.4	67.6	55.2	48.6	51.4	55.2	55.2
60°	3285.0	1720.1	247.6	91.4	66.7	62.9	49.5	42.9	47.6	51.4	52.4
62.5°	3138.3	1416.3	265.7	86.7	60.0	56.2	48.6	40.0	45.7	48.6	49.5
65°	2821.1	1076.3	207.6	75.2	55.2	48.6	43.8	38.1	42.9	45.7	45.7
66°	2670.7	938.2	177.2	69.5	53.3	45.7	41.9	38.1	41.9	43.8	44.8
67.5°	2437.3	740.0	131.4	61.0	49.5	41.9	39.1	36.2	40.0	41.9	41.9
70°	1905.8	441.0	79.1	47.6	42.9	37.1	35.2	33.3	36.2	37.1	37.1
72.5°	1193.4	209.5	50.5	35.2	36.2	35.2	29.5	31.4	32.4	33.3	33.3
75°	578.1	82.9	34.3	25.7	29.5	33.3	23.8	27.6	28.6	30.5	29.5
77.5°	161.0	40.0	21.9	19.0	25.7	25.7	18.1	21.9	25.7	32.4	29.5
80°	46.7	25.7	14.3	14.3	18.1	18.1	12.4	15.2	17.1	19.0	20.0
82.5°	32.4	17.1	9.5	10.5	10.5	11.4	7.6	7.6	9.5	9.5	10.5
85°	25.7	7.6	5.7	6.7	4.8	5.7	3.8	3.8	4.8	3.8	3.8
87.5°	10.5	3.8	3.8	3.8	2.9	2.9	1.9	1.0	1.0	1.0	1.0
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)