

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: P842393

Luminaire Tested: **ARCH4-40-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5279 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

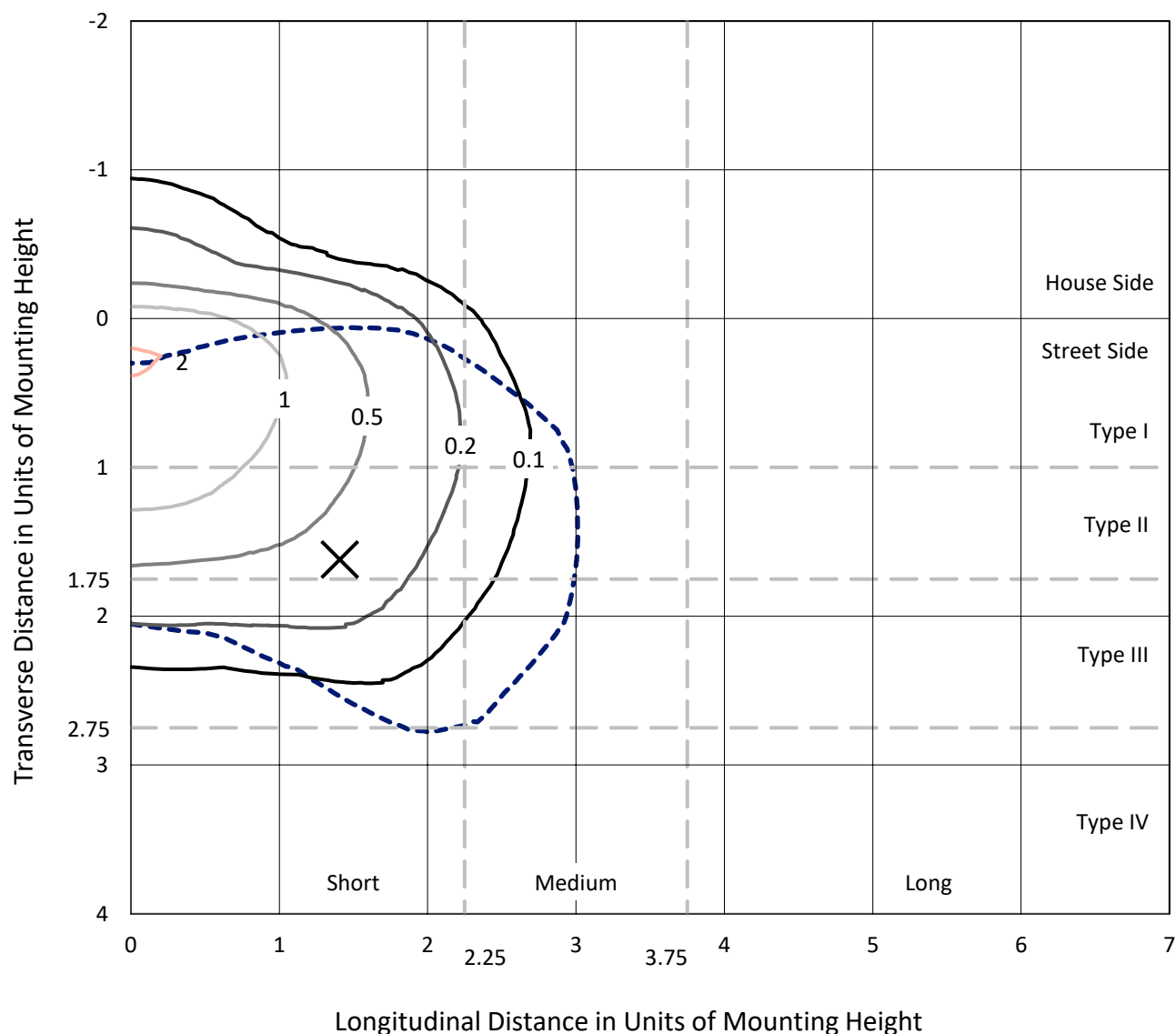
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842393
 CATALOG NUMBER: ARCH4-40-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

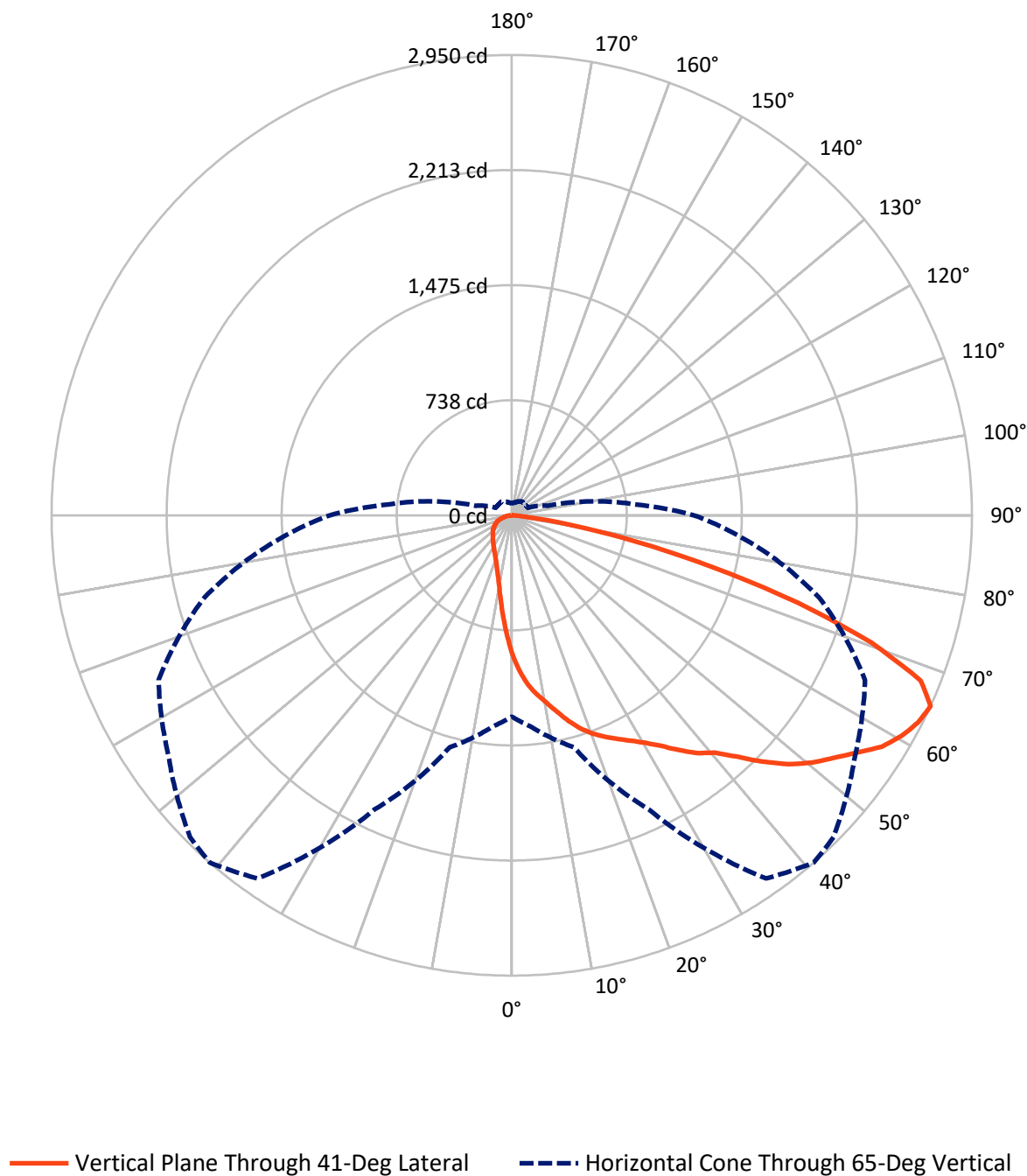
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P842393
CATALOG NUMBER: ARCH4-40-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842393

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.7	0.0	677.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4601.2	0.0	4601.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	5279.0	0.0	5279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.6
10°-20°	251.3	4.8
20°-30°	432.3	8.2
30°-40°	655.7	12.4
40°-50°	960.7	18.2
50°-60°	1213.1	23.0
60°-70°	1137.5	21.5
70°-80°	507.0	9.6
80°-90°	37.6	0.7
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°	5279.0	100.0
0°-180°	5279.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842393

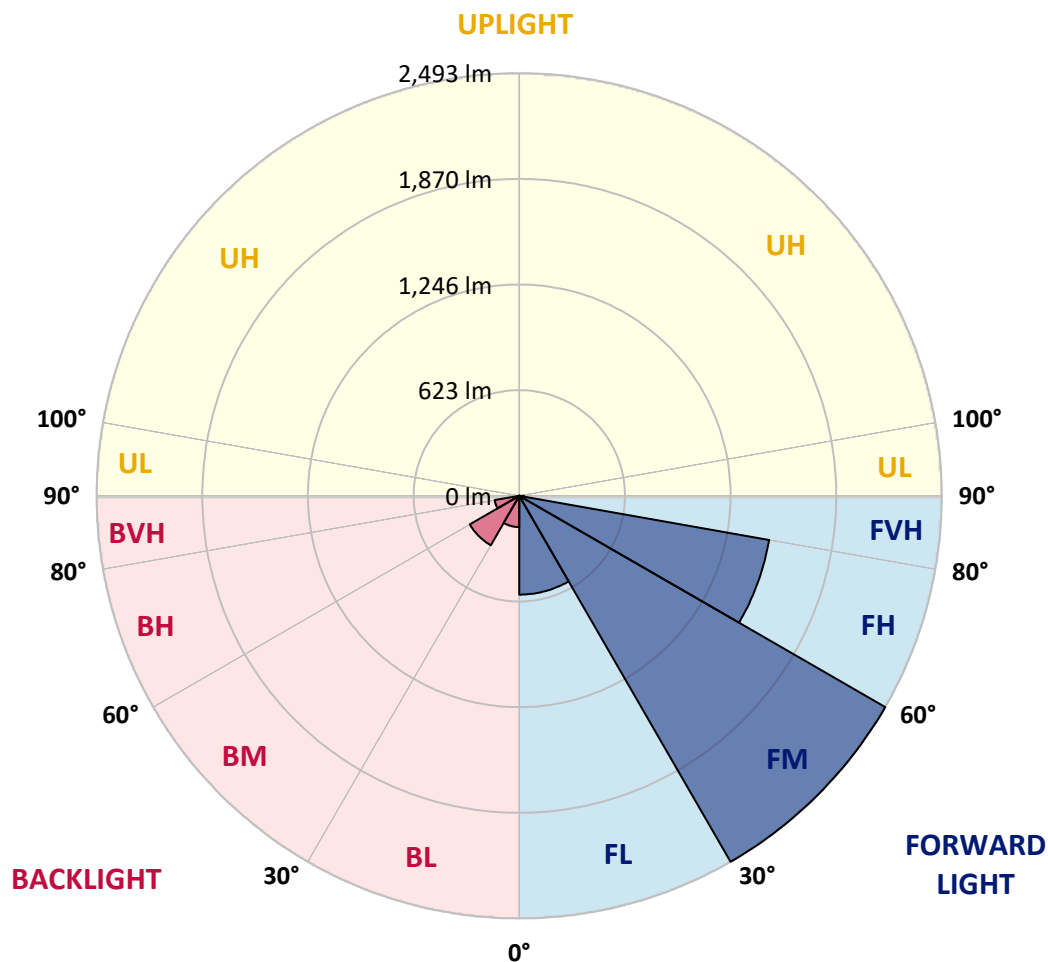
CATALOG NUMBER: ARCH4-40-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.0	11.0			
FM	(30°-60°)	2492.9	47.2			
FH	(60°-80°)	1497.3	28.4			G1/1800
FVH	(80°-90°)	28.0	0.5			G1/100
BL	(0°-30°)	184.5	3.5	B1/500		
BM	(30°-60°)	336.5	6.4	B1/1000		
BH	(60°-80°)	147.2	2.8	B1/500		G1/500
BVH	(80°-90°)	9.5	0.2			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 III Short



REPORT NUMBER: P842393

CATALOG NUMBER: ARCH4-40-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	1037.6	1034.2	1032.0	1019.7	1019.7	1003.0	1004.2	988.6	969.6	939.6	907.3
5°	1135.5	1131.1	1125.5	1113.3	1108.8	1092.1	1089.9	1067.6	1035.3	983.0	925.1
7.5°	1221.2	1216.8	1209.0	1191.2	1178.9	1158.9	1153.3	1124.4	1088.8	1024.2	942.9
10°	1299.2	1295.8	1285.8	1263.5	1246.9	1222.4	1212.3	1173.4	1128.8	1057.6	957.4
12.5°	1378.2	1373.8	1360.4	1341.5	1321.4	1292.5	1280.2	1230.2	1173.4	1094.3	978.6
15°	1451.7	1445.0	1435.0	1415.0	1397.1	1369.3	1356.0	1296.9	1227.9	1135.5	1006.4
17.5°	1499.6	1494.0	1485.1	1474.0	1459.5	1438.3	1425.0	1367.1	1282.5	1175.6	1035.3
20°	1528.5	1526.3	1522.9	1516.3	1509.6	1495.1	1485.1	1430.5	1341.5	1214.6	1063.2
22.5°	1550.8	1548.5	1547.4	1547.4	1548.5	1543.0	1536.3	1489.5	1398.3	1255.8	1088.8
25°	1585.3	1584.2	1581.9	1579.7	1587.5	1588.6	1586.4	1554.1	1469.5	1310.3	1121.1
27.5°	1633.2	1629.8	1625.4	1623.1	1630.9	1636.5	1640.9	1618.7	1545.2	1366.0	1157.8
30°	1706.6	1696.6	1685.5	1677.7	1683.2	1692.2	1702.2	1688.8	1623.1	1435.0	1195.6
32.5°	1793.5	1781.2	1755.6	1741.1	1755.6	1762.3	1770.1	1763.4	1704.4	1509.6	1233.5
35°	1899.2	1884.7	1858.0	1836.9	1862.5	1848.0	1844.7	1838.0	1781.2	1583.1	1275.8
37.5°	2075.1	2054.0	2011.7	1964.9	1964.9	1933.7	1921.5	1901.4	1850.2	1648.7	1317.0
40°	2278.8	2251.0	2196.5	2127.4	2064.0	1999.4	1991.6	1977.1	1931.5	1724.4	1363.7
42.5°	2502.6	2449.2	2373.5	2290.0	2187.6	2114.1	2096.3	2055.1	2010.5	1801.3	1410.5
45°	2750.9	2639.5	2529.3	2487.0	2317.8	2251.0	2217.6	2143.0	2092.9	1881.4	1459.5
47.5°	2790.9	2704.1	2630.6	2624.0	2439.2	2383.5	2345.6	2238.8	2182.0	1967.1	1510.7
50°	2768.7	2716.4	2724.1	2697.4	2528.2	2491.5	2462.5	2341.2	2269.9	2049.5	1557.5
52.5°	2675.2	2704.1	2748.6	2699.7	2612.8	2582.8	2568.3	2451.4	2352.3	2125.2	1599.8
55°	2563.8	2583.9	2679.6	2739.7	2710.8	2684.1	2670.7	2579.4	2433.6	2188.7	1638.7
57.5°	2401.3	2392.4	2498.2	2733.1	2813.2	2797.6	2783.1	2705.2	2509.3	2234.3	1663.2
60°	2157.5	2138.6	2272.2	2599.5	2846.6	2871.1	2864.4	2788.7	2567.2	2233.2	1653.2
62.5°	1735.6	1782.3	1967.1	2381.3	2861.1	2923.4	2911.2	2795.4	2586.1	2168.6	1589.7
65°	1290.3	1357.1	1538.5	2080.7	2841.0	2950.1	2916.7	2686.3	2498.2	2040.6	1450.6
67.5°	929.6	988.6	1121.1	1712.2	2648.4	2827.7	2788.7	2508.2	2295.5	1859.1	1258.0
70°	635.7	678.0	768.1	1246.9	2261.0	2444.7	2420.2	2242.1	1976.0	1643.2	1022.0
72.5°	448.6	466.5	524.3	822.7	1717.8	1918.1	1889.2	1844.7	1587.5	1366.0	794.9
75°	336.2	347.3	378.5	532.1	1158.9	1329.2	1302.5	1328.1	1185.6	1034.2	578.9
77.5°	126.9	138.0	214.9	339.5	685.8	816.0	789.3	804.9	659.0	522.1	288.3
80°	34.5	36.7	71.2	161.4	311.7	406.3	369.6	317.3	244.9	240.5	152.5
82.5°	14.5	16.7	32.3	86.8	111.3	111.3	93.5	115.8	93.5	112.4	73.5
85°	5.6	6.7	7.8	22.3	14.5	15.6	16.7	22.3	18.9	23.4	16.7
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	1.1	2.2	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P842393

CATALOG NUMBER: ARCH4-40-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	893.9	881.7	863.9	834.9	804.9	788.2	767.0	763.7	741.4	739.2	730.3
5°	899.5	873.9	828.3	772.6	718.1	675.7	644.6	627.9	595.6	595.6	586.7
7.5°	904.0	863.9	790.4	708.0	633.4	576.7	534.4	516.6	487.6	485.4	478.7
10°	905.1	851.6	749.2	642.4	551.1	493.2	452.0	431.9	406.3	404.1	399.7
12.5°	914.0	845.0	712.5	585.6	492.1	429.7	389.6	372.9	352.9	350.7	346.2
15°	928.5	845.0	681.3	537.7	439.7	381.8	347.3	331.8	317.3	315.1	312.8
17.5°	942.9	842.7	650.1	493.2	396.3	344.0	313.9	301.7	290.6	289.4	287.2
20°	956.3	841.6	619.0	455.3	362.9	312.8	289.4	278.3	269.4	269.4	268.3
22.5°	969.6	839.4	588.9	419.7	334.0	289.4	269.4	257.2	250.5	250.5	249.4
25°	989.7	839.4	561.1	389.6	310.6	271.6	251.6	242.7	237.1	236.0	236.0
27.5°	1013.1	846.1	536.6	362.9	290.6	253.8	238.2	229.3	222.7	220.4	221.5
30°	1038.7	851.6	514.3	339.5	271.6	240.5	223.8	214.9	208.2	206.0	207.1
32.5°	1064.3	858.3	494.3	318.4	252.7	228.2	211.5	201.5	194.8	193.7	193.7
35°	1092.1	865.0	474.2	300.6	237.1	216.0	200.4	189.3	184.8	182.6	183.7
37.5°	1119.9	876.1	455.3	283.9	226.0	204.8	190.4	179.2	175.9	174.8	174.8
40°	1153.3	892.8	447.5	272.7	216.0	194.8	182.6	171.4	168.1	168.1	168.1
42.5°	1181.2	906.2	440.9	260.5	208.2	185.9	174.8	165.9	163.6	162.5	163.6
45°	1209.0	918.4	431.9	249.4	198.2	177.0	168.1	159.2	157.0	157.0	157.0
47.5°	1236.8	925.1	419.7	238.2	189.3	169.2	161.4	153.6	151.4	151.4	151.4
50°	1259.1	930.7	401.9	226.0	179.2	162.5	154.7	147.0	144.7	144.7	144.7
52.5°	1281.4	931.8	383.0	211.5	169.2	154.7	148.1	140.3	138.0	136.9	136.9
55°	1301.4	930.7	360.7	194.8	158.1	145.8	140.3	133.6	129.1	124.7	126.9
57.5°	1315.9	929.6	335.1	178.1	147.0	136.9	134.7	125.8	116.9	105.8	108.0
60°	1310.3	917.3	307.3	157.0	134.7	128.0	128.0	115.8	100.2	94.6	95.7
62.5°	1274.7	882.8	278.3	134.7	122.5	119.1	118.0	104.6	92.4	86.8	87.9
65°	1167.8	796.0	236.0	114.7	110.2	109.1	109.1	96.9	85.7	79.0	80.2
67.5°	1005.3	668.0	192.6	96.9	98.0	100.2	100.2	89.1	77.9	71.2	72.4
70°	806.0	522.1	153.6	83.5	84.6	87.9	90.2	80.2	70.1	63.5	63.5
72.5°	606.7	396.3	123.6	70.1	75.7	75.7	79.0	71.2	61.2	54.5	55.7
75°	439.7	283.9	98.0	59.0	65.7	64.6	64.6	60.1	52.3	47.9	47.9
77.5°	208.2	149.2	77.9	42.3	51.2	50.1	51.2	47.9	44.5	40.1	41.2
80°	102.4	73.5	50.1	30.1	35.6	36.7	40.1	37.9	36.7	33.4	33.4
82.5°	49.0	28.9	23.4	21.2	24.5	25.6	27.8	27.8	28.9	26.7	26.7
85°	13.4	7.8	10.0	13.4	15.6	16.7	18.9	20.0	20.0	18.9	20.0
87.5°	3.3	3.3	4.5	6.7	7.8	8.9	10.0	10.0	4.5	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)