

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: P842528

Luminaire Tested: **ARCH4-60-727-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842528
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: ARCH4-60-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA 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: 7391 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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



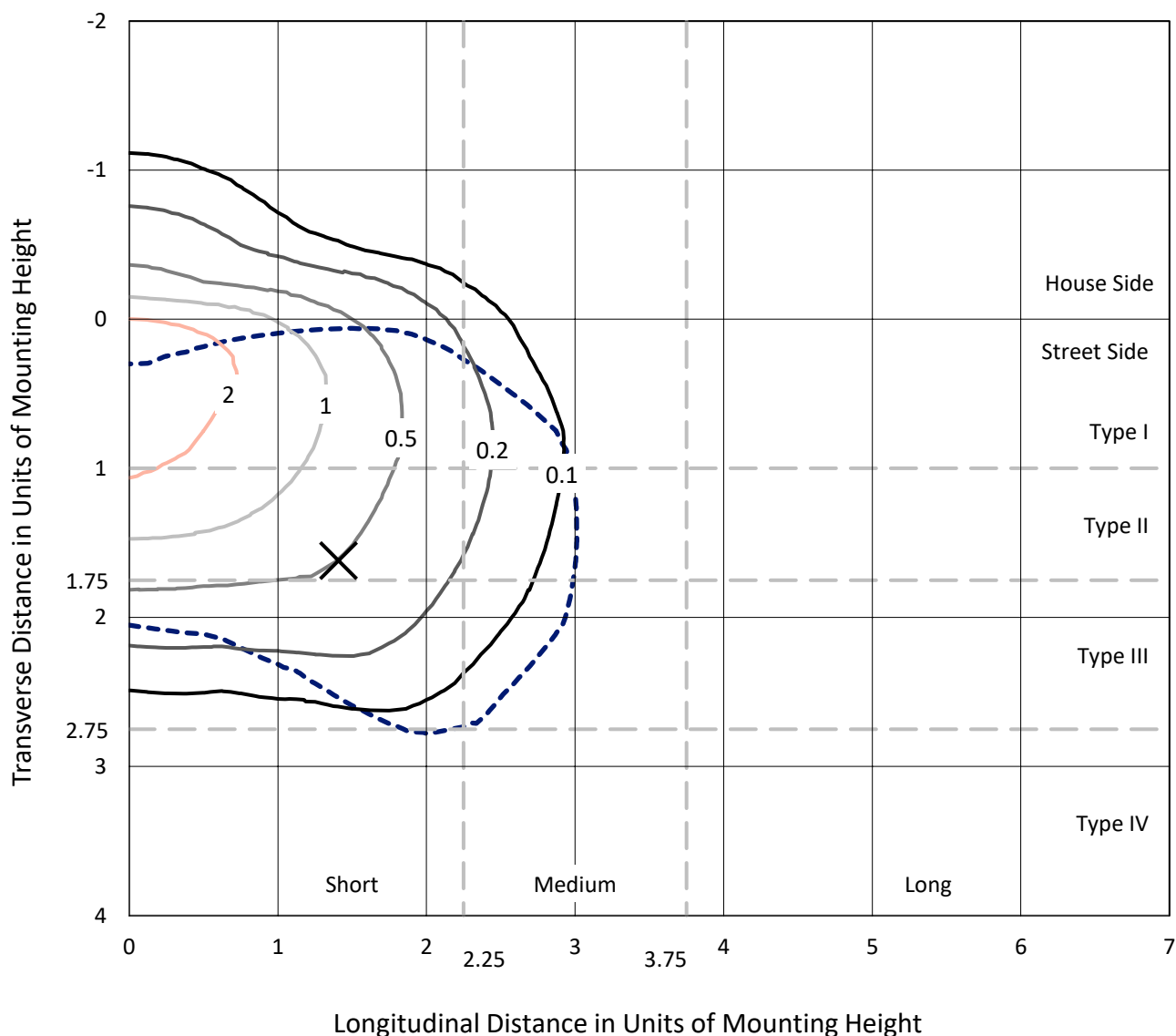
REPORT NUMBER: P842528

CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

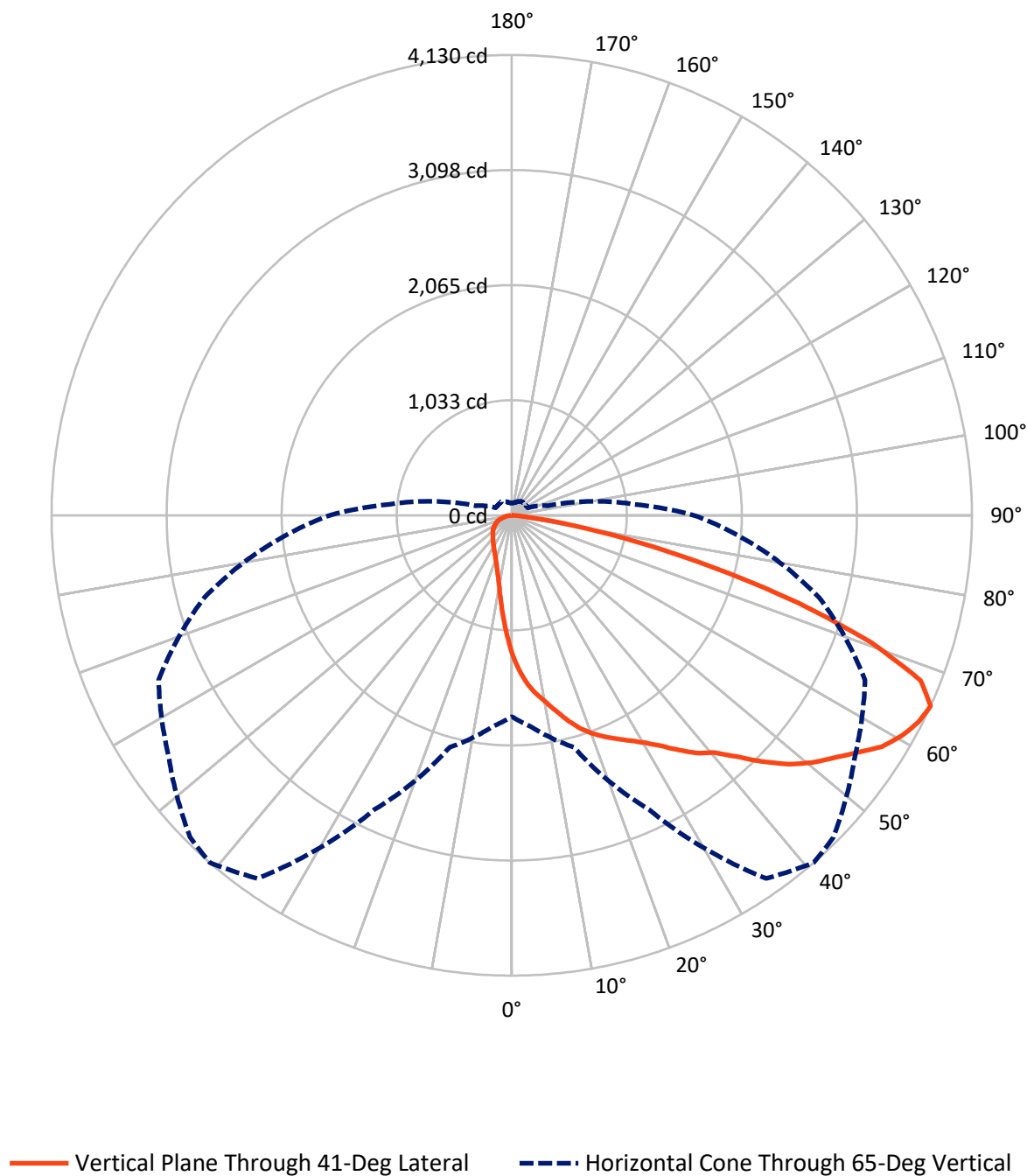


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

Type III - Short - N/A

REPORT NUMBER: P842528
CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842528

CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.9	0.0	948.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6442.1	0.0	6442.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	7391.0	0.0	7391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.6
10°-20°	351.9	4.8
20°-30°	605.3	8.2
30°-40°	918.1	12.4
40°-50°	1345.0	18.2
50°-60°	1698.4	23.0
60°-70°	1592.6	21.5
70°-80°	709.8	9.6
80°-90°	52.6	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°	7391.0	100.0
0°-180°	7391.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842528

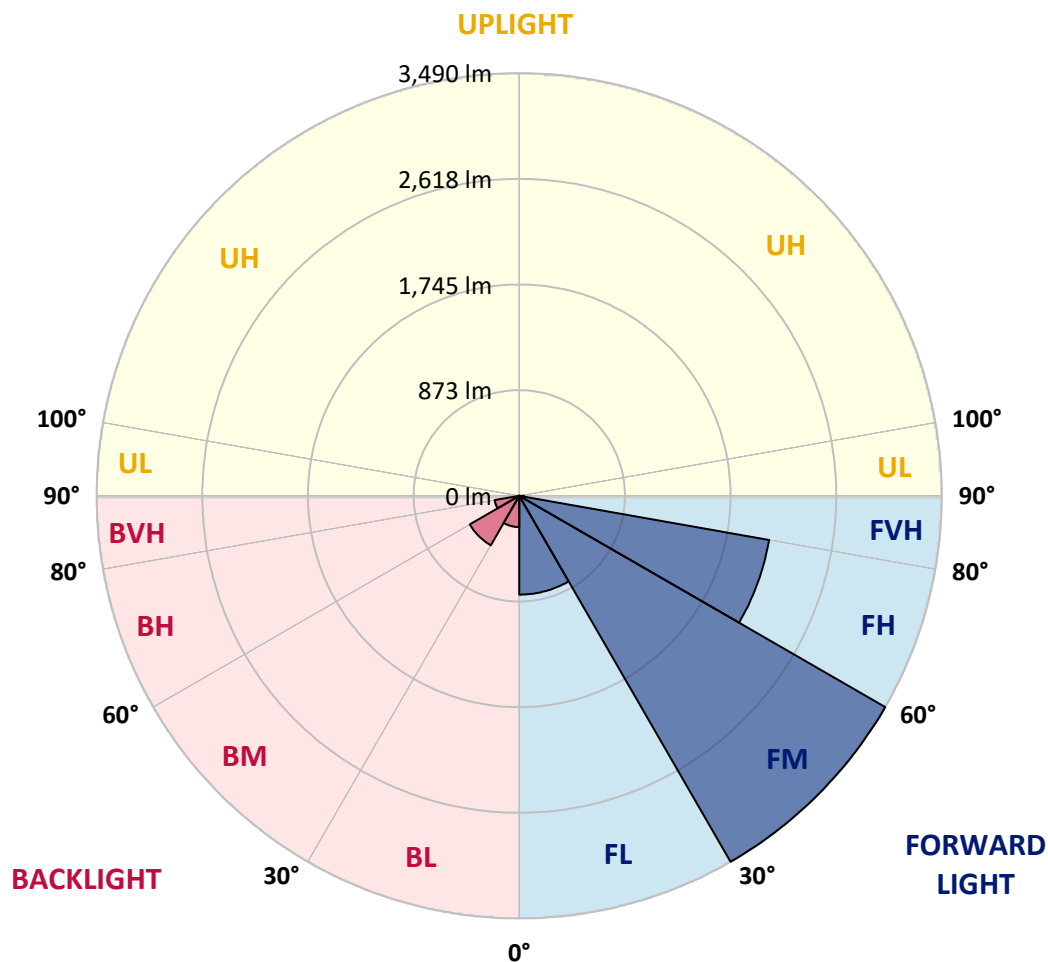
CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.2	11.0			
FM	(30°-60°)	3490.3	47.2			
FH	(60°-80°)	2096.3	28.4			G2/5000
FVH	(80°-90°)	39.3	0.5			G1/100
BL	(0°-30°)	258.3	3.5	B1/500		
BM	(30°-60°)	471.2	6.4	B1/1000		
BH	(60°-80°)	206.1	2.8	B1/500		G1/500
BVH	(80°-90°)	13.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P842528

CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4
2.5°	1452.7	1448.0	1444.9	1427.7	1427.7	1404.3	1405.9	1384.1	1357.6	1315.5	1270.3
5°	1589.8	1583.6	1575.8	1558.6	1552.4	1529.0	1525.9	1494.7	1449.5	1376.3	1295.2
7.5°	1709.8	1703.6	1692.7	1667.8	1650.6	1622.6	1614.8	1574.2	1524.4	1434.0	1320.2
10°	1818.9	1814.3	1800.2	1769.1	1745.7	1711.4	1697.4	1642.8	1580.5	1480.7	1340.4
12.5°	1929.6	1923.4	1904.7	1878.2	1850.1	1809.6	1792.4	1722.3	1642.8	1532.2	1370.1
15°	2032.5	2023.1	2009.1	1981.0	1956.1	1917.1	1898.4	1815.8	1719.2	1589.8	1409.0
17.5°	2099.5	2091.7	2079.2	2063.7	2043.4	2013.8	1995.1	1914.0	1795.6	1645.9	1449.5
20°	2140.0	2136.9	2132.2	2122.9	2113.5	2093.3	2079.2	2002.9	1878.2	1700.5	1488.5
22.5°	2171.2	2168.1	2166.5	2166.5	2168.1	2160.3	2150.9	2085.5	1957.7	1758.2	1524.4
25°	2219.5	2218.0	2214.8	2211.7	2222.6	2224.2	2221.1	2175.9	2057.4	1834.5	1569.6
27.5°	2286.5	2281.9	2275.6	2272.5	2283.4	2291.2	2297.4	2266.3	2163.4	1912.5	1621.0
30°	2389.4	2375.4	2359.8	2348.9	2356.7	2369.1	2383.2	2364.5	2272.5	2009.1	1674.0
32.5°	2511.0	2493.8	2458.0	2437.7	2458.0	2467.3	2478.3	2468.9	2386.3	2113.5	1727.0
35°	2659.1	2638.8	2601.4	2571.8	2607.6	2587.4	2582.7	2573.3	2493.8	2216.4	1786.2
37.5°	2905.3	2875.7	2816.5	2751.0	2751.0	2707.4	2690.2	2662.2	2590.5	2308.4	1843.9
40°	3190.6	3151.6	3075.2	2978.6	2889.7	2799.3	2788.4	2768.2	2704.3	2414.3	1909.3
42.5°	3503.8	3429.0	3323.0	3206.1	3062.7	2959.9	2934.9	2877.3	2814.9	2521.9	1974.8
45°	3851.4	3695.6	3541.2	3482.0	3245.1	3151.6	3104.8	3000.4	2930.3	2634.1	2043.4
47.5°	3907.5	3786.0	3683.1	3673.7	3415.0	3337.1	3284.1	3134.4	3055.0	2754.1	2115.1
50°	3876.4	3803.1	3814.0	3776.6	3539.7	3488.3	3447.7	3277.8	3178.1	2869.5	2180.5
52.5°	3745.4	3786.0	3848.3	3779.7	3658.1	3616.1	3595.8	3432.1	3293.4	2975.5	2239.8
55°	3589.6	3617.6	3751.7	3835.8	3795.3	3757.9	3739.2	3611.4	3407.2	3064.3	2294.3
57.5°	3362.0	3349.5	3497.6	3826.5	3938.7	3916.9	3896.6	3787.5	3513.2	3128.2	2328.6
60°	3020.7	2994.2	3181.2	3639.4	3985.5	4019.8	4010.4	3904.4	3594.2	3126.6	2314.6
62.5°	2429.9	2495.4	2754.1	3333.9	4005.7	4093.0	4075.9	3913.8	3620.7	3036.2	2225.7
65°	1806.5	1900.0	2154.1	2913.1	3977.7	4130.4	4083.7	3761.0	3497.6	2857.0	2030.9
67.5°	1301.5	1384.1	1569.6	2397.2	3708.0	3959.0	3904.4	3511.6	3213.9	2602.9	1761.3
70°	890.0	949.2	1075.5	1745.7	3165.6	3422.8	3388.5	3139.1	2766.6	2300.6	1430.8
72.5°	628.1	653.1	734.1	1151.8	2405.0	2685.6	2645.0	2582.7	2222.6	1912.5	1112.9
75°	470.7	486.3	529.9	745.0	1622.6	1861.0	1823.6	1859.5	1660.0	1448.0	810.5
77.5°	177.7	193.3	300.8	475.4	960.1	1142.5	1105.1	1126.9	922.7	731.0	403.7
80°	48.3	51.4	99.8	226.0	436.4	568.9	517.5	444.2	342.9	336.7	213.5
82.5°	20.3	23.4	45.2	121.6	155.9	155.9	130.9	162.1	130.9	157.4	102.9
85°	7.8	9.4	10.9	31.2	20.3	21.8	23.4	31.2	26.5	32.7	23.4
87.5°	0.0	0.0	0.0	1.6	1.6	3.1	1.6	3.1	4.7	4.7	4.7
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: P842528

CATALOG NUMBER: ARCH4-60-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4
2.5°	1251.6	1234.4	1209.5	1169.0	1126.9	1103.5	1073.9	1069.2	1038.1	1034.9	1022.5
5°	1259.4	1223.5	1159.6	1081.7	1005.3	946.1	902.5	879.1	833.9	833.9	821.4
7.5°	1265.6	1209.5	1106.6	991.3	886.9	807.4	748.2	723.2	682.7	679.6	670.2
10°	1267.2	1192.4	1049.0	899.3	771.5	690.5	632.8	604.8	568.9	565.8	559.6
12.5°	1279.7	1183.0	997.5	819.8	688.9	601.6	545.5	522.1	494.1	491.0	484.7
15°	1299.9	1183.0	953.9	752.8	615.7	534.6	486.3	464.5	444.2	441.1	438.0
17.5°	1320.2	1179.9	910.3	690.5	554.9	481.6	439.5	422.4	406.8	405.2	402.1
20°	1338.9	1178.3	866.6	637.5	508.1	438.0	405.2	389.7	377.2	377.2	375.6
22.5°	1357.6	1175.2	824.5	587.6	467.6	405.2	377.2	360.0	350.7	350.7	349.1
25°	1385.6	1175.2	785.6	545.5	434.9	380.3	352.3	339.8	332.0	330.4	330.4
27.5°	1418.4	1184.6	751.3	508.1	406.8	355.4	333.6	321.1	311.7	308.6	310.2
30°	1454.2	1192.4	720.1	475.4	380.3	336.7	313.3	300.8	291.5	288.3	289.9
32.5°	1490.1	1201.7	692.0	445.8	353.8	319.5	296.1	282.1	272.8	271.2	271.2
35°	1529.0	1211.1	664.0	420.8	332.0	302.4	280.6	265.0	258.7	255.6	257.2
37.5°	1568.0	1226.7	637.5	397.5	316.4	286.8	266.5	250.9	246.3	244.7	244.7
40°	1614.8	1250.0	626.6	381.9	302.4	272.8	255.6	240.0	235.4	235.4	235.4
42.5°	1653.7	1268.7	617.2	364.7	291.5	260.3	244.7	232.2	229.1	227.6	229.1
45°	1692.7	1285.9	604.8	349.1	277.4	247.8	235.4	222.9	219.8	219.8	219.8
47.5°	1731.7	1295.2	587.6	333.6	265.0	236.9	226.0	215.1	212.0	212.0	212.0
50°	1762.8	1303.0	562.7	316.4	250.9	227.6	216.7	205.7	202.6	202.6	202.6
52.5°	1794.0	1304.6	536.2	296.1	236.9	216.7	207.3	196.4	193.3	191.7	191.7
55°	1822.1	1303.0	505.0	272.8	221.3	204.2	196.4	187.0	180.8	174.6	177.7
57.5°	1842.3	1301.5	469.2	249.4	205.7	191.7	188.6	176.1	163.7	148.1	151.2
60°	1834.5	1284.3	430.2	219.8	188.6	179.2	179.2	162.1	140.3	132.5	134.0
62.5°	1784.7	1236.0	389.7	188.6	171.5	166.8	165.2	146.5	129.4	121.6	123.1
65°	1635.0	1114.4	330.4	160.5	154.3	152.7	152.7	135.6	120.0	110.7	112.2
67.5°	1407.5	935.2	269.6	135.6	137.2	140.3	140.3	124.7	109.1	99.8	101.3
70°	1128.5	731.0	215.1	116.9	118.5	123.1	126.3	112.2	98.2	88.8	88.8
72.5°	849.5	554.9	173.0	98.2	106.0	106.0	110.7	99.8	85.7	76.4	77.9
75°	615.7	397.5	137.2	82.6	92.0	90.4	90.4	84.2	73.3	67.0	67.0
77.5°	291.5	208.9	109.1	59.2	71.7	70.1	71.7	67.0	62.3	56.1	57.7
80°	143.4	102.9	70.1	42.1	49.9	51.4	56.1	53.0	51.4	46.8	46.8
82.5°	68.6	40.5	32.7	29.6	34.3	35.8	39.0	39.0	40.5	37.4	37.4
85°	18.7	10.9	14.0	18.7	21.8	23.4	26.5	28.1	28.1	26.5	28.1
87.5°	4.7	4.7	6.2	9.4	10.9	12.5	14.0	14.0	6.2	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)