

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: P800136

Luminaire Tested: **ARCH2-80-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7345 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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

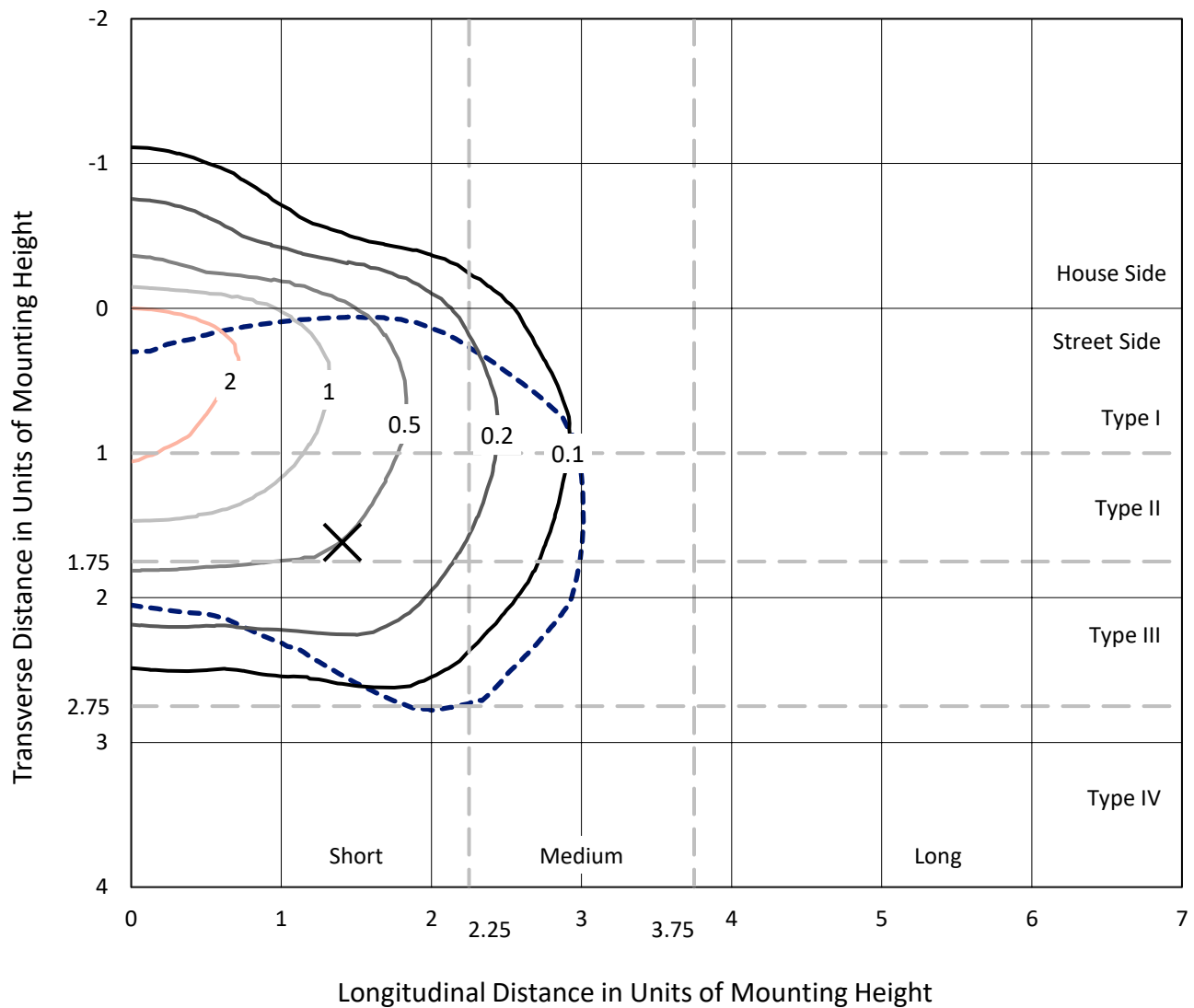


REPORT NUMBER: P800136

CATALOG NUMBER: ARCH2-80-727-U-T4W-HSS

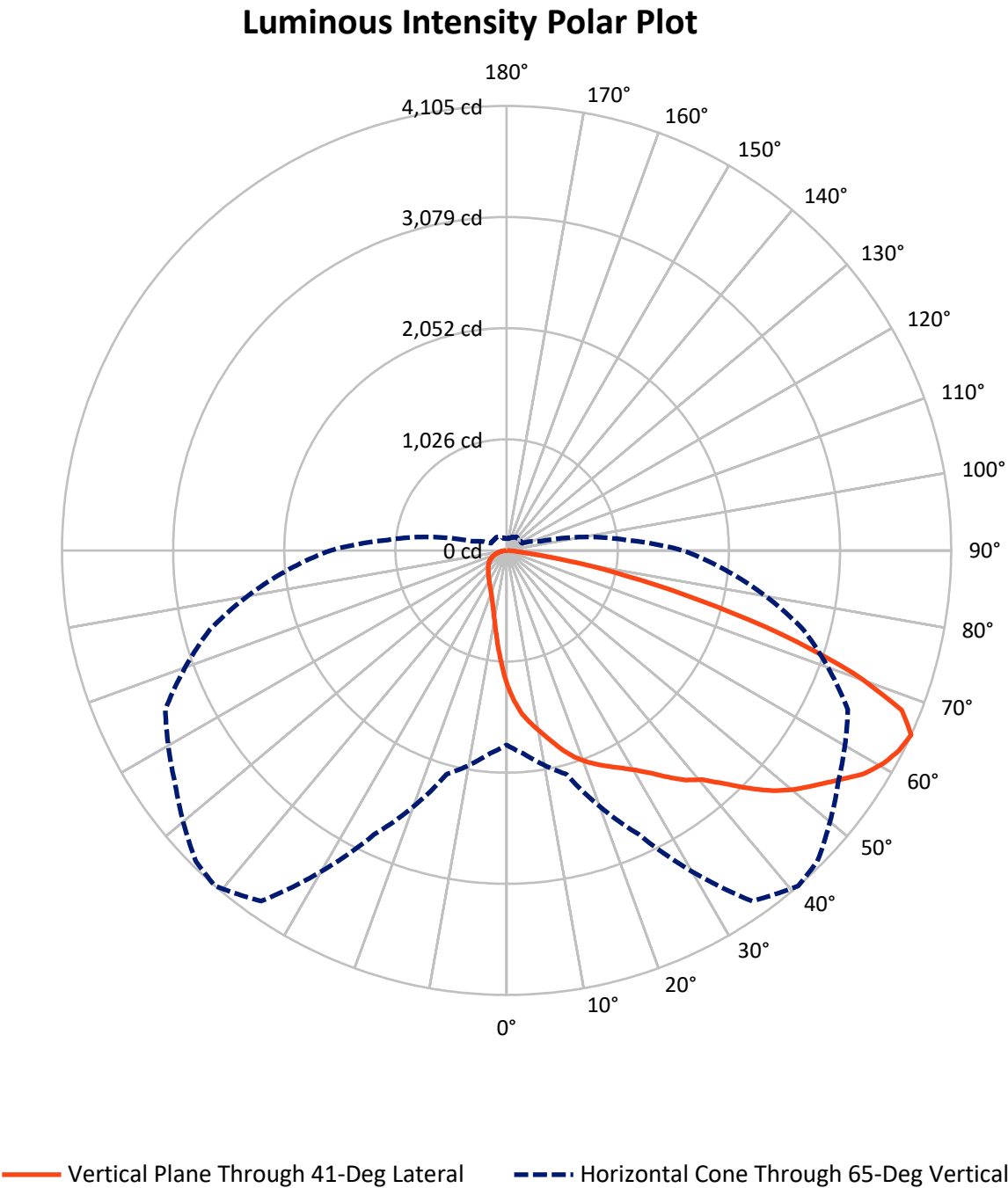
Iso-Footcandle Lines of Horizontal Illumination

✕ 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: P800136
CATALOG NUMBER: ARCH2-80-727-U-T4W-HSS



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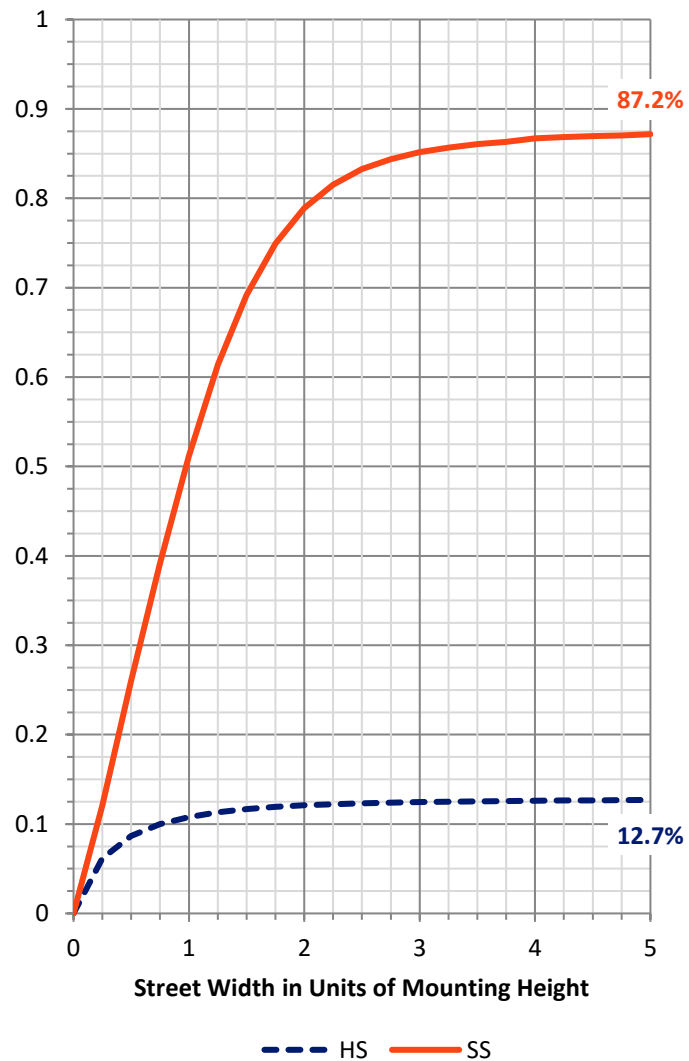
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.0	0.0	943.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6402.0	0.0	6402.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	7345.0	0.0	7345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.6
10°-20°	349.7	4.8
20°-30°	601.6	8.2
30°-40°	912.4	12.4
40°-50°	1336.6	18.2
50°-60°	1687.9	23.0
60°-70°	1582.7	21.5
70°-80°	705.4	9.6
80°-90°	52.2	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°	7345.0	100.0
0°-180°	7345.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800136

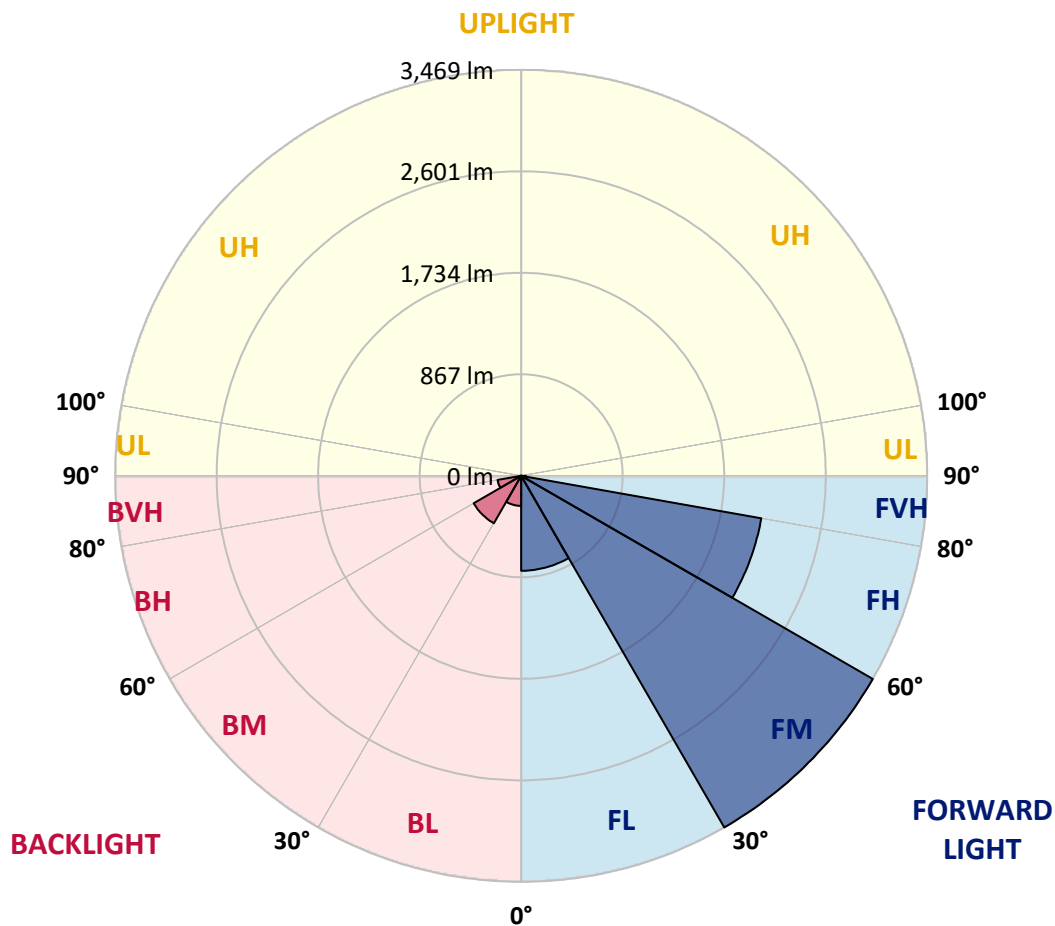
CATALOG NUMBER: ARCH2-80-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.2	11.0			
FM	(30°-60°)	3468.6	47.2			
FH	(60°-80°)	2083.2	28.4			G2/5000
FVH	(80°-90°)	39.0	0.5			G1/100
BL	(0°-30°)	256.7	3.5	B1/500		
BM	(30°-60°)	468.2	6.4	B1/1000		
BH	(60°-80°)	204.8	2.8	B1/500		G1/500
BVH	(80°-90°)	13.2	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: P800136

CATALOG NUMBER: ARCH2-80-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5
2.5°	1443.6	1439.0	1435.9	1418.8	1418.8	1395.6	1397.2	1375.5	1349.1	1307.3	1262.4
5°	1579.9	1573.7	1566.0	1548.9	1542.8	1519.5	1516.4	1485.4	1440.5	1367.7	1287.2
7.5°	1699.2	1693.0	1682.2	1657.4	1640.3	1612.5	1604.7	1564.4	1514.9	1425.0	1312.0
10°	1807.6	1803.0	1789.0	1758.1	1734.8	1700.7	1686.8	1632.6	1570.6	1471.5	1332.1
12.5°	1917.6	1911.4	1892.8	1866.5	1838.6	1798.3	1781.3	1711.6	1632.6	1522.6	1361.5
15°	2019.8	2010.5	1996.6	1968.7	1943.9	1905.2	1886.6	1804.5	1708.5	1579.9	1400.2
17.5°	2086.4	2078.7	2066.3	2050.8	2030.7	2001.2	1982.7	1902.1	1784.4	1635.7	1440.5
20°	2126.7	2123.6	2119.0	2109.7	2100.4	2080.2	2066.3	1990.4	1866.5	1689.9	1479.2
22.5°	2157.7	2154.6	2153.0	2153.0	2154.6	2146.8	2137.5	2072.5	1945.5	1747.2	1514.9
25°	2205.7	2204.2	2201.1	2198.0	2208.8	2210.3	2207.3	2162.3	2044.6	1823.1	1559.8
27.5°	2272.3	2267.7	2261.5	2258.4	2269.2	2277.0	2283.1	2252.2	2149.9	1900.6	1610.9
30°	2374.5	2360.6	2345.1	2334.3	2342.0	2354.4	2368.3	2349.8	2258.4	1996.6	1663.6
32.5°	2495.4	2478.3	2442.7	2422.6	2442.7	2452.0	2462.8	2453.5	2371.4	2100.4	1716.2
35°	2642.5	2622.4	2585.2	2555.8	2591.4	2571.3	2566.6	2557.3	2478.3	2202.6	1775.1
37.5°	2887.2	2857.8	2798.9	2733.9	2733.9	2690.5	2673.5	2645.6	2574.4	2294.0	1832.4
40°	3170.7	3132.0	3056.1	2960.0	2871.7	2781.9	2771.1	2750.9	2687.4	2399.3	1897.5
42.5°	3482.0	3407.7	3302.4	3186.2	3043.7	2941.5	2916.7	2859.4	2797.4	2506.2	1962.5
45°	3827.4	3672.6	3519.2	3460.3	3224.9	3132.0	3085.5	2981.7	2912.0	2617.7	2030.7
47.5°	3883.2	3762.4	3660.2	3650.9	3393.7	3316.3	3263.6	3114.9	3035.9	2737.0	2101.9
50°	3852.2	3779.4	3790.3	3753.1	3517.7	3466.5	3426.3	3257.4	3158.3	2851.6	2167.0
52.5°	3722.1	3762.4	3824.4	3756.2	3635.4	3593.6	3573.4	3410.8	3272.9	2956.9	2225.8
55°	3567.2	3595.1	3728.3	3812.0	3771.7	3734.5	3715.9	3588.9	3386.0	3045.2	2280.1
57.5°	3341.1	3328.7	3475.8	3802.7	3914.2	3892.5	3872.4	3763.9	3491.3	3108.7	2314.1
60°	3001.9	2975.5	3161.4	3616.8	3960.7	3994.7	3985.4	3880.1	3571.9	3107.2	2300.2
62.5°	2414.8	2479.9	2737.0	3313.2	3980.8	4067.5	4050.5	3889.4	3598.2	3017.3	2211.9
65°	1795.2	1888.2	2140.6	2895.0	3952.9	4104.7	4058.2	3737.6	3475.8	2839.2	2018.3
67.5°	1293.4	1375.5	1559.8	2382.3	3684.9	3934.3	3880.1	3489.8	3193.9	2586.7	1750.3
70°	884.4	943.3	1068.8	1734.8	3145.9	3401.5	3367.4	3119.6	2749.4	2286.2	1421.9
72.5°	624.2	649.0	729.6	1144.7	2390.0	2668.8	2628.6	2566.6	2208.8	1900.6	1105.9
75°	467.8	483.3	526.6	740.4	1612.5	1849.4	1812.3	1847.9	1649.6	1439.0	805.5
77.5°	176.6	192.1	298.9	472.4	954.2	1135.4	1098.2	1119.9	917.0	726.5	401.2
80°	48.0	51.1	99.1	224.6	433.7	565.4	514.3	441.5	340.8	334.6	212.2
82.5°	20.1	23.2	44.9	120.8	154.9	154.9	130.1	161.1	130.1	156.4	102.2
85°	7.7	9.3	10.8	31.0	20.1	21.7	23.2	31.0	26.3	32.5	23.2
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	1.5	3.1	4.6	4.6	4.6
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: P800136

CATALOG NUMBER: ARCH2-80-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5	1251.5
2.5°	1243.8	1226.8	1202.0	1161.7	1119.9	1096.7	1067.2	1062.6	1031.6	1028.5	1016.1
5°	1251.5	1215.9	1152.4	1075.0	999.1	940.2	896.8	873.6	828.7	828.7	816.3
7.5°	1257.7	1202.0	1099.8	985.1	881.4	802.4	743.5	718.7	678.4	675.3	666.0
10°	1259.3	1184.9	1042.4	893.7	766.7	686.2	628.9	601.0	565.4	562.3	556.1
12.5°	1271.7	1175.7	991.3	814.7	684.6	597.9	542.1	518.9	491.0	487.9	481.7
15°	1291.8	1175.7	948.0	748.1	611.8	531.3	483.3	461.6	441.5	438.4	435.3
17.5°	1312.0	1172.6	904.6	686.2	551.4	478.6	436.8	419.8	404.3	402.7	399.6
20°	1330.5	1171.0	861.2	633.5	505.0	435.3	402.7	387.2	374.8	374.8	373.3
22.5°	1349.1	1167.9	819.4	584.0	464.7	402.7	374.8	357.8	348.5	348.5	347.0
25°	1377.0	1167.9	780.7	542.1	432.2	377.9	350.1	337.7	329.9	328.4	328.4
27.5°	1409.5	1177.2	746.6	505.0	404.3	353.2	331.5	319.1	309.8	306.7	308.2
30°	1445.2	1184.9	715.6	472.4	377.9	334.6	311.3	298.9	289.7	286.6	288.1
32.5°	1480.8	1194.2	687.7	443.0	351.6	317.5	294.3	280.4	271.1	269.5	269.5
35°	1519.5	1203.5	659.9	418.2	329.9	300.5	278.8	263.3	257.1	254.0	255.6
37.5°	1558.2	1219.0	633.5	395.0	314.4	285.0	264.9	249.4	244.7	243.2	243.2
40°	1604.7	1242.3	622.7	379.5	300.5	271.1	254.0	238.5	233.9	233.9	233.9
42.5°	1643.4	1260.8	613.4	362.5	289.7	258.7	243.2	230.8	227.7	226.1	227.7
45°	1682.2	1277.9	601.0	347.0	275.7	246.3	233.9	221.5	218.4	218.4	218.4
47.5°	1720.9	1287.2	584.0	331.5	263.3	235.4	224.6	213.8	210.7	210.7	210.7
50°	1751.9	1294.9	559.2	314.4	249.4	226.1	215.3	204.5	201.4	201.4	201.4
52.5°	1782.8	1296.5	532.8	294.3	235.4	215.3	206.0	195.2	192.1	190.5	190.5
55°	1810.7	1294.9	501.9	271.1	220.0	202.9	195.2	185.9	179.7	173.5	176.6
57.5°	1830.9	1293.4	466.2	247.8	204.5	190.5	187.4	175.0	162.6	147.2	150.2
60°	1823.1	1276.3	427.5	218.4	187.4	178.1	178.1	161.1	139.4	131.7	133.2
62.5°	1773.5	1228.3	387.2	187.4	170.4	165.7	164.2	145.6	128.6	120.8	122.4
65°	1624.8	1107.5	328.4	159.5	153.3	151.8	151.8	134.8	119.3	110.0	111.5
67.5°	1398.7	929.4	268.0	134.8	136.3	139.4	139.4	123.9	108.4	99.1	100.7
70°	1121.4	726.5	213.8	116.2	117.7	122.4	125.5	111.5	97.6	88.3	88.3
72.5°	844.2	551.4	171.9	97.6	105.3	105.3	110.0	99.1	85.2	75.9	77.4
75°	611.8	395.0	136.3	82.1	91.4	89.8	89.8	83.6	72.8	66.6	66.6
77.5°	289.7	207.6	108.4	58.9	71.3	69.7	71.3	66.6	62.0	55.8	57.3
80°	142.5	102.2	69.7	41.8	49.6	51.1	55.8	52.7	51.1	46.5	46.5
82.5°	68.2	40.3	32.5	29.4	34.1	35.6	38.7	38.7	40.3	37.2	37.2
85°	18.6	10.8	13.9	18.6	21.7	23.2	26.3	27.9	27.9	26.3	27.9
87.5°	4.6	4.6	6.2	9.3	10.8	12.4	13.9	13.9	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)