

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: P836524

Luminaire Tested: **ARCH3-40-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4374 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

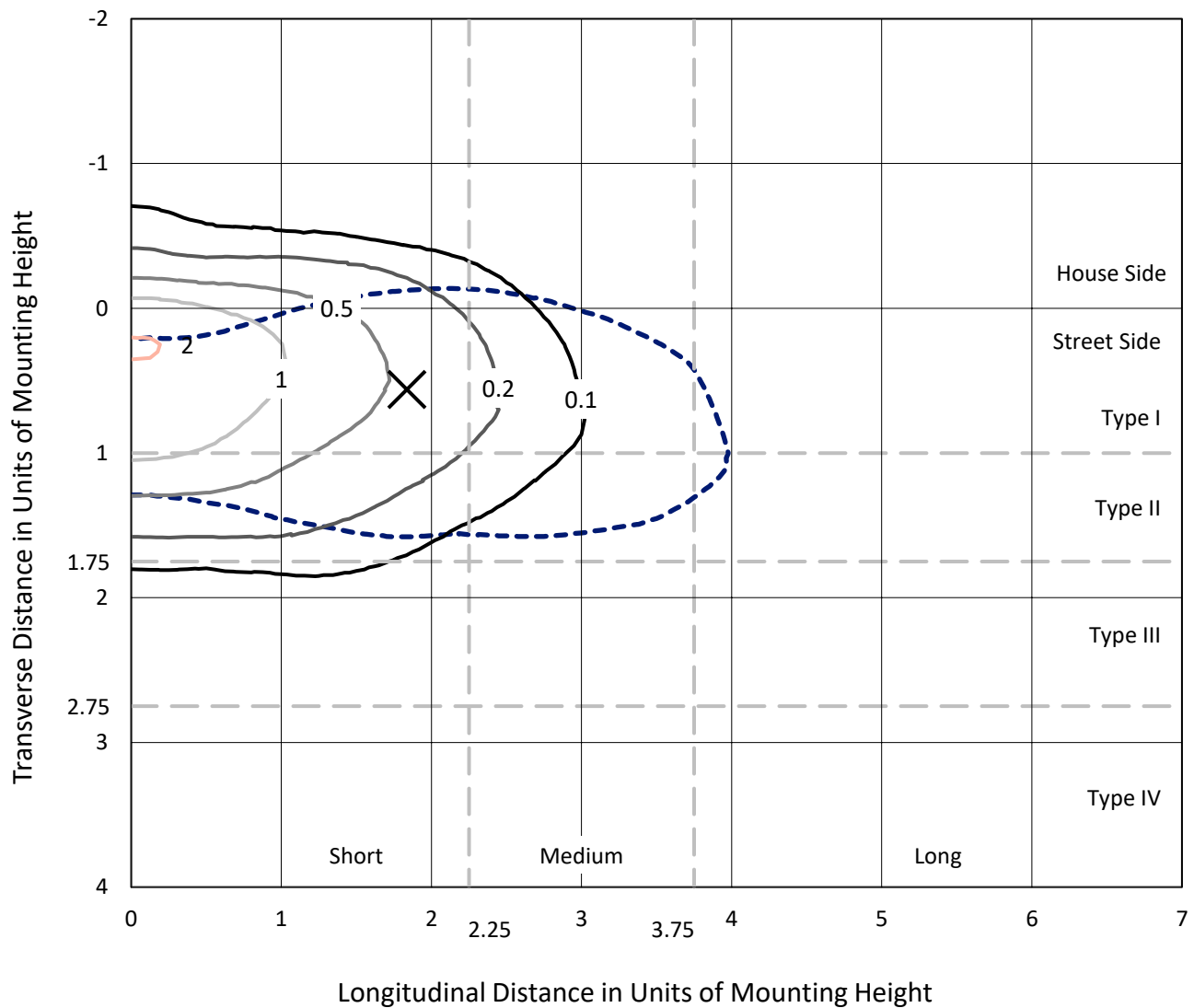


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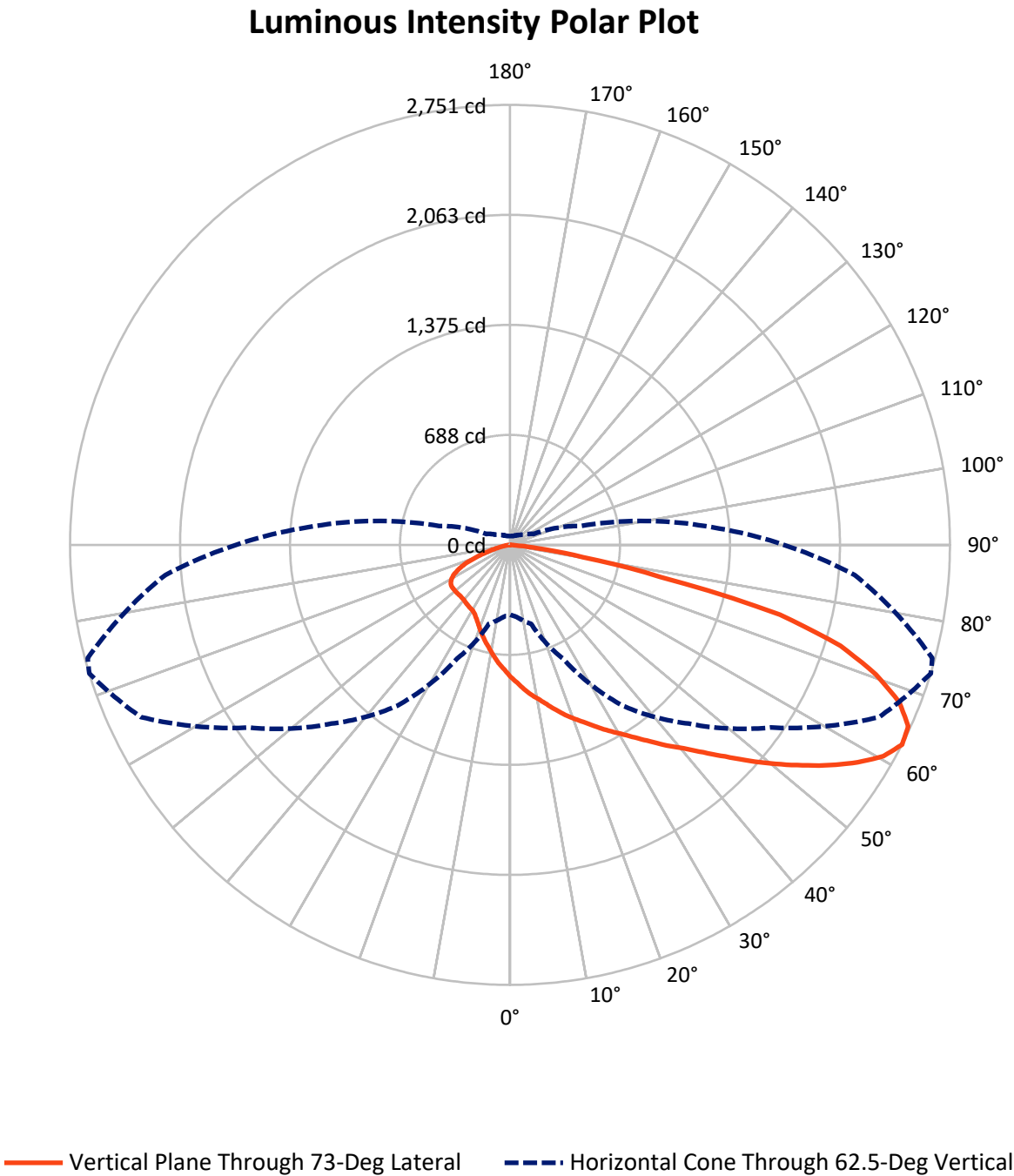
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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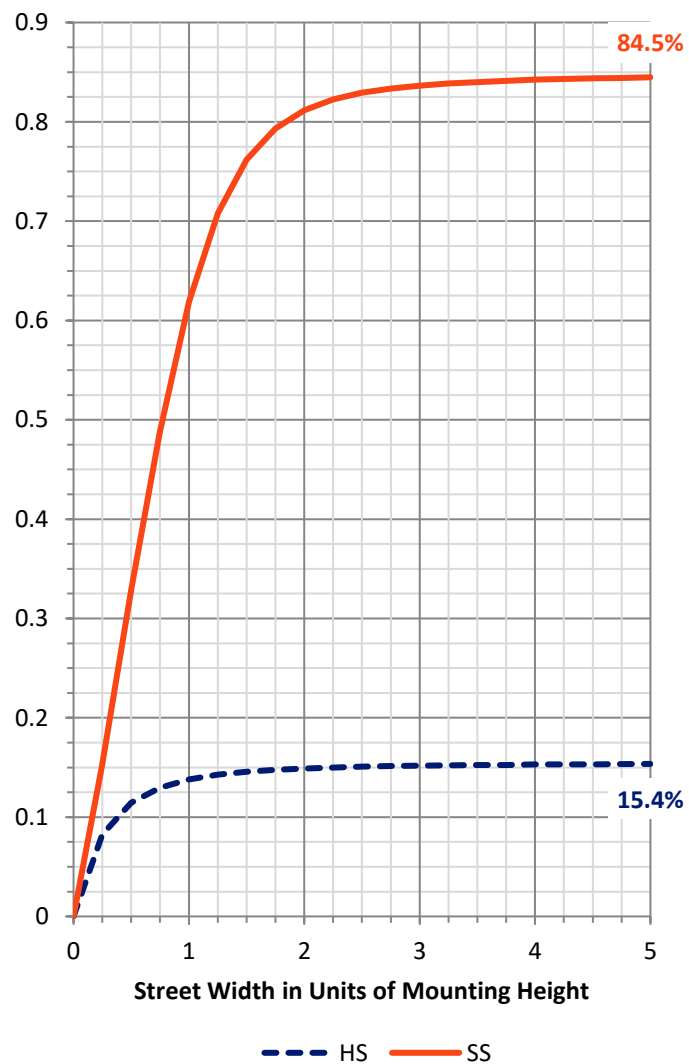
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.0	0.0	678.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3696.0	0.0	3696.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	4374.0	0.0	4374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.8
10°-20°	241.4	5.5
20°-30°	401.9	9.2
30°-40°	606.4	13.9
40°-50°	847.6	19.4
50°-60°	936.2	21.4
60°-70°	815.5	18.6
70°-80°	412.0	9.4
80°-90°	33.1	0.8
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°	4374.0	100.0
0°-180°	4374.0	100.0

Coefficient of Utilization



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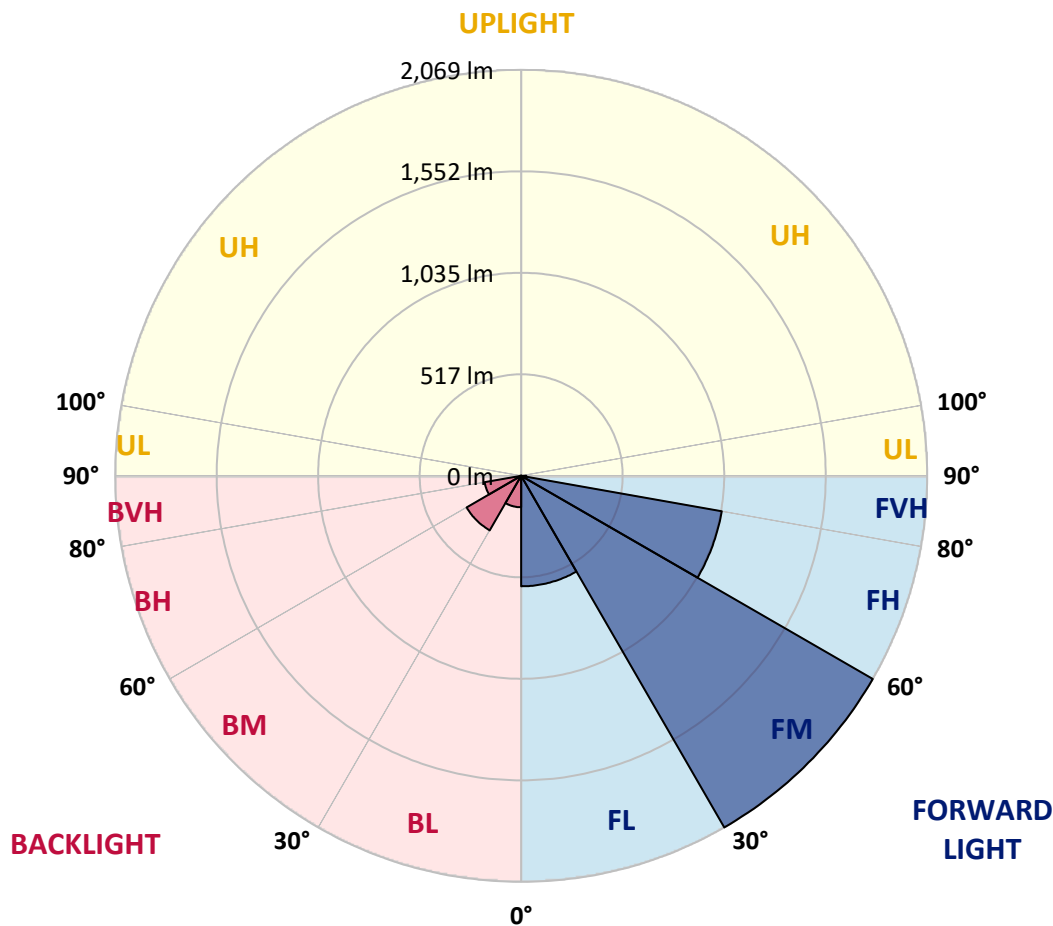
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.1	12.9			
FM	(30°-60°)	2069.1	47.3			
FH	(60°-80°)	1038.3	23.7			G1/1800
FVH	(80°-90°)	25.6	0.6			G1/100
BL	(0°-30°)	160.3	3.7	B1/500		
BM	(30°-60°)	321.0	7.3	B1/1000		
BH	(60°-80°)	189.3	4.3	B1/500		G1/500
BVH	(80°-90°)	7.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2
2.5°	942.6	953.1	947.4	951.2	932.1	919.7	905.4	877.8	862.5	860.6	842.5
5°	1080.8	1092.2	1082.7	1079.8	1046.5	1017.9	985.5	936.9	904.5	898.8	858.7
7.5°	1219.0	1229.5	1218.0	1209.5	1164.7	1114.2	1066.5	995.0	944.5	935.0	872.1
10°	1316.2	1325.7	1317.2	1308.6	1261.9	1210.4	1142.7	1049.3	980.7	965.5	880.6
12.5°	1389.6	1395.3	1391.5	1383.9	1340.0	1284.8	1219.9	1110.3	1021.7	1002.6	894.0
15°	1449.6	1459.2	1454.4	1448.7	1406.7	1351.5	1289.5	1174.2	1069.4	1045.5	914.0
17.5°	1489.7	1496.3	1497.3	1497.3	1460.1	1405.8	1345.7	1232.3	1117.0	1086.5	933.1
20°	1507.8	1515.4	1520.2	1527.8	1497.3	1450.6	1389.6	1281.9	1161.8	1127.5	951.2
22.5°	1516.3	1523.0	1535.4	1552.6	1527.8	1488.7	1432.5	1327.6	1206.6	1170.4	972.1
25°	1523.0	1531.6	1549.7	1582.1	1565.0	1531.6	1483.0	1380.1	1260.0	1222.8	1002.6
27.5°	1541.1	1551.6	1568.8	1607.8	1586.9	1570.7	1536.4	1436.3	1316.2	1278.1	1039.8
30°	1604.0	1612.6	1611.7	1636.4	1610.7	1605.9	1582.1	1490.6	1370.5	1332.4	1083.7
32.5°	1718.4	1727.0	1706.0	1696.5	1640.2	1641.2	1631.7	1548.8	1435.3	1396.3	1134.2
35°	1841.3	1850.9	1823.2	1807.0	1712.7	1685.0	1689.8	1621.2	1507.8	1468.7	1197.1
37.5°	1951.0	1962.4	1938.6	1914.7	1819.4	1755.6	1754.6	1702.2	1590.7	1550.7	1266.6
40°	2011.0	2024.3	2038.6	2025.3	1925.2	1854.7	1824.2	1785.1	1672.7	1631.7	1341.9
42.5°	2039.6	2076.8	2102.5	2093.9	2012.0	1940.5	1904.3	1871.8	1772.7	1732.7	1431.5
45°	1959.5	1960.5	2014.8	2061.5	2046.3	1998.6	1991.9	1969.1	1887.1	1849.0	1532.6
47.5°	1859.5	1851.8	1890.0	1972.9	2015.8	2028.2	2067.2	2076.8	2017.7	1979.5	1635.5
50°	1619.3	1624.0	1747.9	1867.1	1951.0	2031.0	2120.6	2187.3	2152.1	2115.8	1744.1
52.5°	1317.2	1328.6	1470.6	1732.7	1865.2	2002.4	2152.1	2297.9	2289.3	2255.0	1852.8
55°	1056.0	1074.1	1224.7	1508.7	1755.6	1938.6	2165.4	2398.9	2431.3	2399.9	1959.5
57.5°	807.3	826.3	953.1	1244.7	1615.5	1834.7	2155.9	2487.5	2563.8	2543.8	2057.7
60°	608.1	627.1	708.1	1009.3	1440.1	1718.4	2108.2	2545.7	2682.9	2662.0	2129.2
62.5°	435.6	450.8	510.9	785.3	1226.6	1580.2	1991.0	2546.6	2750.6	2733.4	2163.5
65°	313.6	313.6	362.2	560.4	1026.5	1414.4	1813.7	2429.4	2736.3	2731.5	2139.7
67.5°	225.9	227.8	266.9	391.7	818.7	1213.3	1584.0	2220.7	2625.7	2649.6	2053.9
70°	160.1	164.9	183.0	273.5	618.5	957.8	1338.1	1947.1	2426.5	2468.5	1888.1
72.5°	123.9	126.8	139.1	190.6	451.8	712.0	1066.5	1642.2	2160.6	2208.3	1662.2
75°	95.3	98.2	107.7	140.1	324.0	499.4	757.7	1274.3	1742.2	1827.1	1335.3
77.5°	69.6	73.4	80.1	102.0	188.7	317.4	459.4	716.7	961.7	1001.7	699.6
80°	32.4	37.2	46.7	65.8	102.0	149.6	163.0	276.4	462.2	483.2	379.3
82.5°	18.1	22.9	26.7	40.0	51.5	53.4	55.3	69.6	174.4	192.5	159.2
85°	8.6	11.4	12.4	17.2	17.2	15.2	18.1	13.3	28.6	34.3	33.4
87.5°	0.0	1.0	1.9	4.8	3.8	2.9	2.9	2.9	2.9	3.8	2.9
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°	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2	828.2
2.5°	833.9	821.6	793.0	768.2	752.0	737.7	718.6	710.0	694.8	697.7	689.1
5°	838.7	815.8	765.3	718.6	684.3	653.8	620.5	601.4	580.4	578.5	571.8
7.5°	841.6	806.3	733.9	668.1	615.7	569.0	524.2	499.4	473.7	468.0	462.2
10°	838.7	792.0	701.5	615.7	546.1	488.0	437.5	406.0	379.3	372.7	366.9
12.5°	841.6	784.4	671.0	567.1	484.2	418.4	361.2	328.8	304.0	297.4	293.5
15°	848.2	779.6	645.2	523.2	428.9	355.5	299.3	271.6	251.6	244.9	243.0
17.5°	854.0	774.9	617.6	480.4	373.6	300.2	251.6	228.7	211.6	204.9	203.0
20°	861.6	768.2	590.0	439.4	325.0	256.4	213.5	193.5	180.1	175.4	174.4
22.5°	868.3	763.4	564.2	398.4	280.2	221.1	184.9	168.7	159.2	154.4	154.4
25°	885.4	765.3	542.3	360.3	246.8	193.5	163.0	150.6	143.0	140.1	140.1
27.5°	905.4	772.9	525.1	327.9	218.3	172.5	147.7	137.2	133.4	129.6	130.6
30°	934.0	788.2	513.7	301.2	197.3	156.3	135.3	127.7	123.9	122.9	122.9
32.5°	970.2	813.0	512.8	284.0	182.0	143.9	126.8	120.1	118.2	117.2	117.2
35°	1013.1	834.9	507.0	276.4	172.5	135.3	120.1	115.3	114.4	114.4	114.4
37.5°	1064.6	871.1	503.2	265.9	167.7	130.6	115.3	111.5	111.5	111.5	111.5
40°	1118.0	900.7	497.5	256.4	165.8	127.7	112.5	107.7	107.7	107.7	107.7
42.5°	1181.8	943.5	495.6	251.6	163.0	125.8	108.7	102.9	103.9	103.9	104.8
45°	1259.0	992.2	494.6	246.8	162.0	123.9	104.8	98.2	99.1	98.2	98.2
47.5°	1337.2	1048.4	497.5	244.0	161.1	122.0	102.0	93.4	93.4	92.4	92.4
50°	1419.1	1099.9	499.4	241.1	159.2	118.2	97.2	89.6	87.7	85.8	86.7
52.5°	1496.3	1147.5	500.4	236.4	153.4	112.5	93.4	84.8	82.0	79.1	80.1
55°	1573.5	1193.3	502.3	230.6	145.8	106.7	88.6	80.1	76.2	72.4	72.4
57.5°	1643.1	1233.3	497.5	216.3	137.2	101.0	83.9	74.3	68.6	64.8	64.8
60°	1690.8	1261.9	483.2	195.4	125.8	94.4	79.1	68.6	62.0	59.1	59.1
62.5°	1713.6	1266.6	457.5	161.1	111.5	87.7	73.4	62.9	57.2	55.3	55.3
65°	1691.7	1245.7	417.4	121.0	96.3	80.1	67.7	58.1	52.4	47.7	47.7
67.5°	1615.5	1186.6	362.2	91.5	82.0	72.4	62.0	53.4	46.7	42.9	42.9
70°	1462.0	1063.6	280.2	73.4	69.6	62.9	56.2	47.7	41.9	37.2	37.2
72.5°	1260.9	901.6	197.3	59.1	59.1	53.4	47.7	41.9	36.2	32.4	32.4
75°	967.4	667.2	132.5	47.7	48.6	44.8	39.1	34.3	30.5	27.6	27.6
77.5°	528.0	329.8	81.0	35.3	36.2	34.3	30.5	27.6	25.7	22.9	22.9
80°	256.4	144.9	46.7	24.8	25.7	24.8	22.9	20.0	20.0	18.1	18.1
82.5°	107.7	54.3	24.8	17.2	17.2	15.2	14.3	14.3	14.3	13.3	13.3
85°	26.7	10.5	10.5	9.5	9.5	9.5	8.6	8.6	8.6	6.7	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.9	1.0	0.0	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)