

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: P799864

Luminaire Tested: **ARCH2-60-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799864
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: ARCH2-60-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA 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: 5385 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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

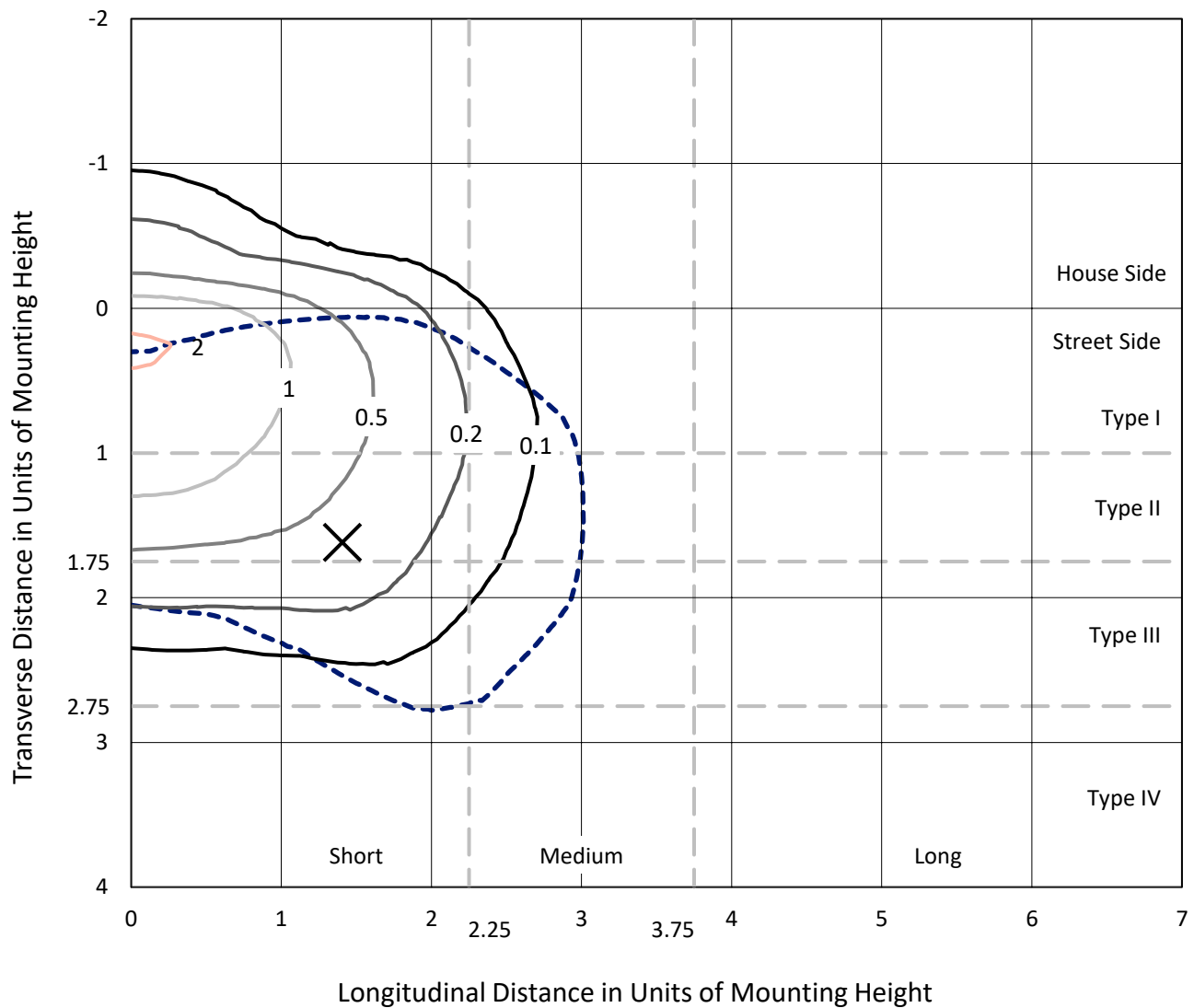


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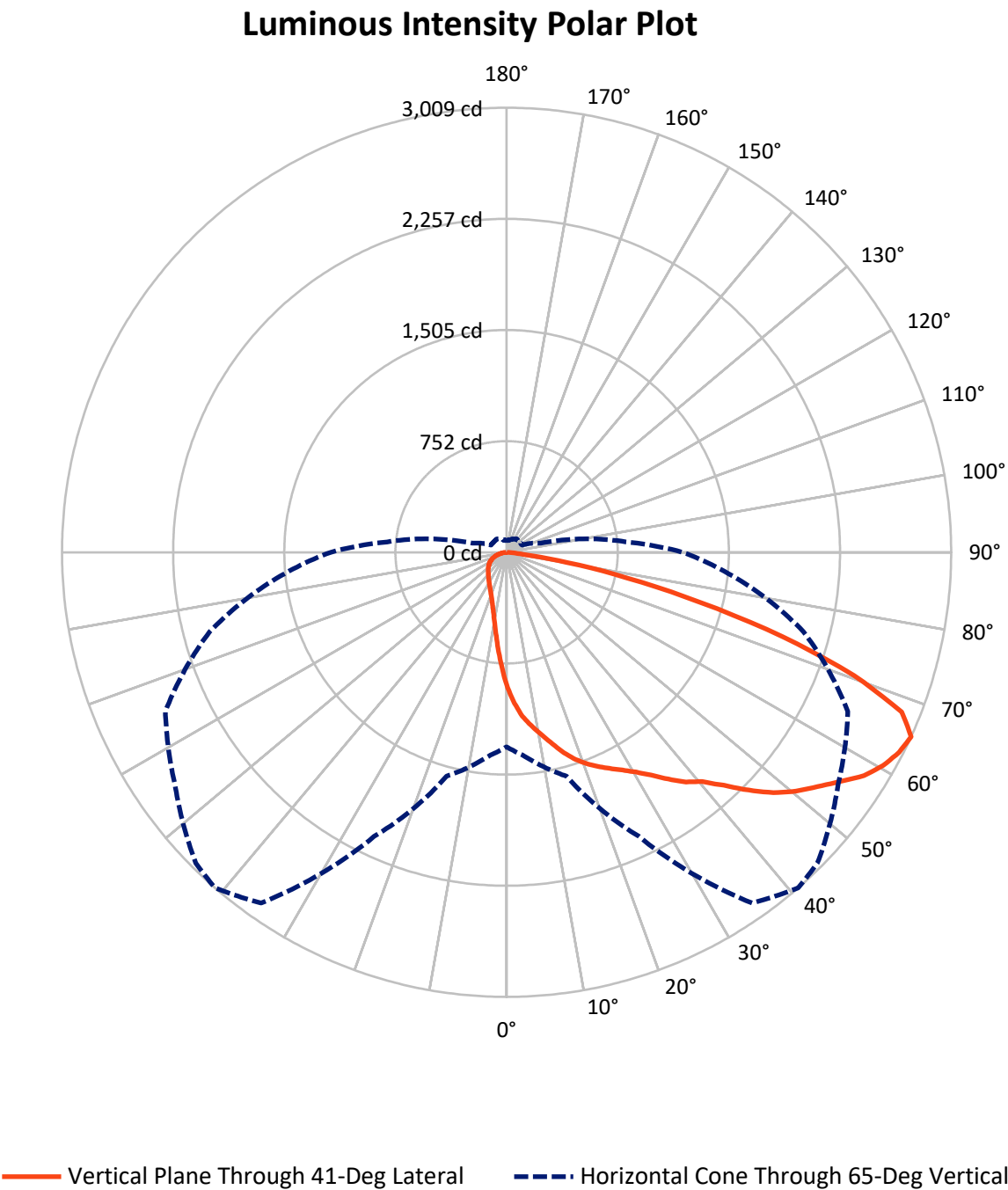
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



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

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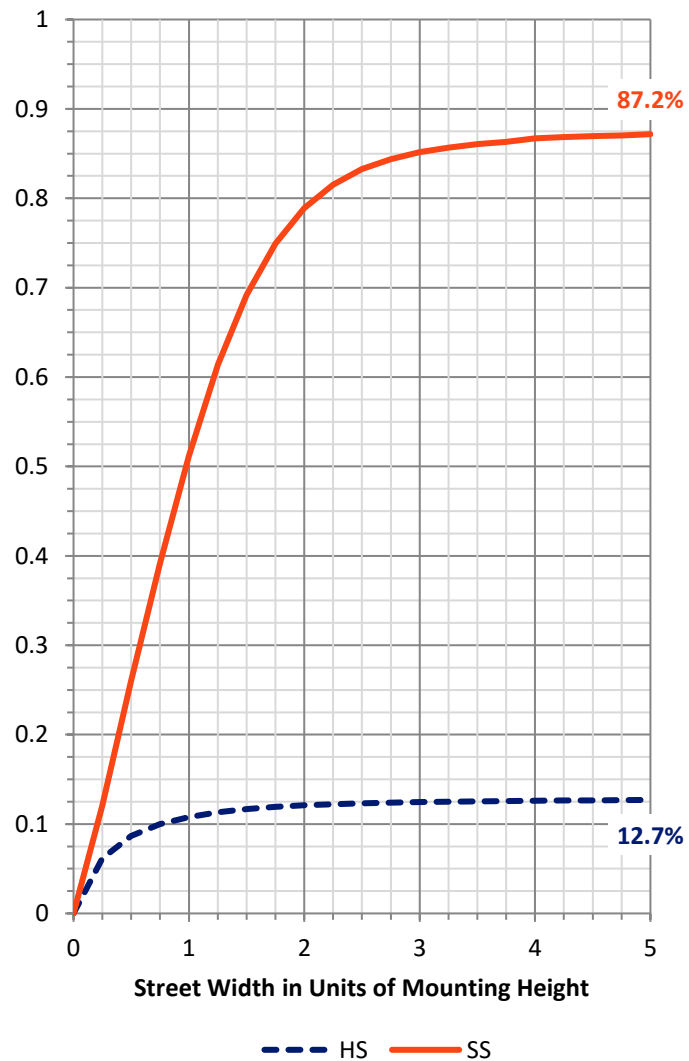
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.3	0.0	691.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4693.6	0.0	4693.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	5385.0	0.0	5385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.6
10°-20°	256.4	4.8
20°-30°	441.0	8.2
30°-40°	668.9	12.4
40°-50°	979.9	18.2
50°-60°	1237.5	23.0
60°-70°	1160.3	21.5
70°-80°	517.2	9.6
80°-90°	38.3	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°	5385.0	100.0
0°-180°	5385.0	100.0

Coefficient of Utilization



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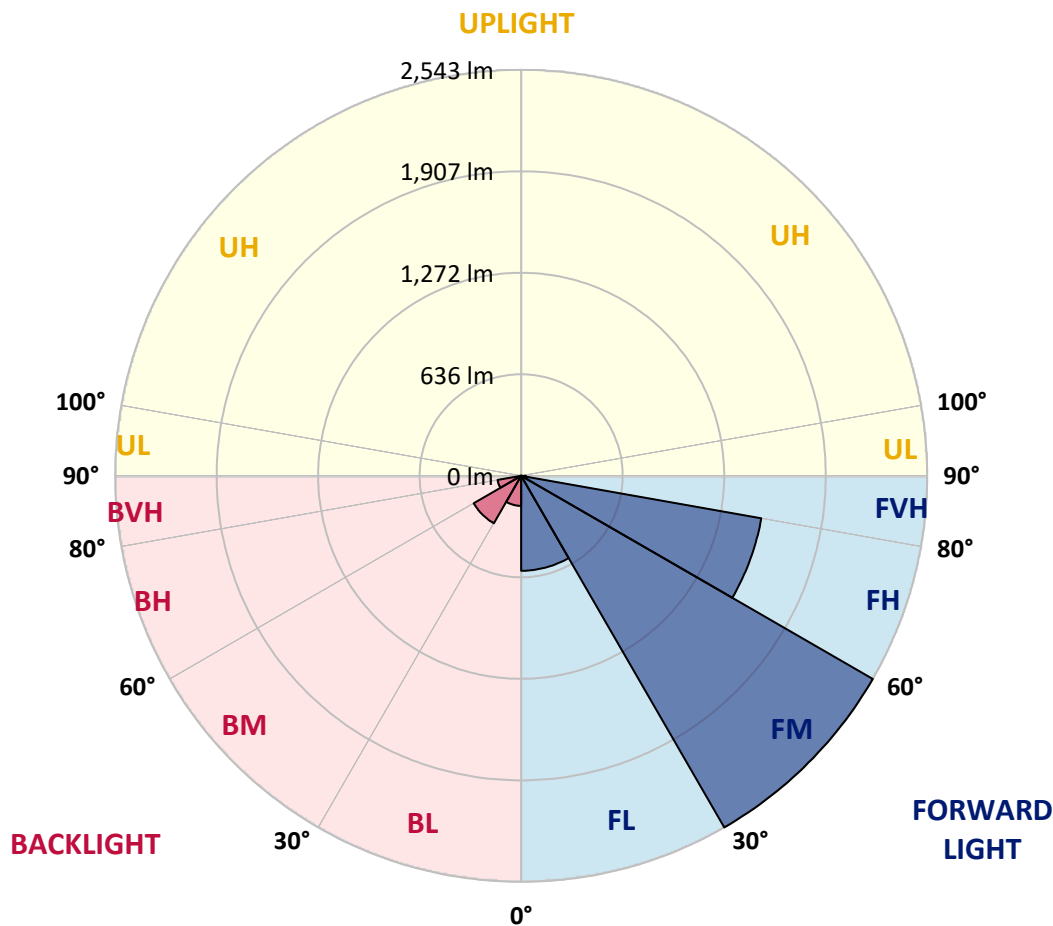
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.7	11.0			
FM	(30°-60°)	2543.0	47.2			
FH	(60°-80°)	1527.3	28.4			G1/1800
FVH	(80°-90°)	28.6	0.5			G1/100
BL	(0°-30°)	188.2	3.5	B1/500		
BM	(30°-60°)	343.3	6.4	B1/1000		
BH	(60°-80°)	150.2	2.8	B1/500		G1/500
BVH	(80°-90°)	9.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	1058.4	1055.0	1052.7	1040.2	1040.2	1023.2	1024.3	1008.4	989.1	958.5	925.5
5°	1158.3	1153.8	1148.1	1135.6	1131.1	1114.0	1111.8	1089.1	1056.1	1002.7	943.7
7.5°	1245.8	1241.2	1233.3	1215.1	1202.6	1182.2	1176.5	1147.0	1110.6	1044.8	961.9
10°	1325.3	1321.9	1311.6	1288.9	1271.9	1246.9	1236.7	1196.9	1151.5	1078.8	976.6
12.5°	1405.9	1401.3	1387.7	1368.4	1348.0	1318.4	1306.0	1254.9	1196.9	1116.3	998.2
15°	1480.8	1474.0	1463.8	1443.4	1425.2	1396.8	1383.2	1323.0	1252.6	1158.3	1026.6
17.5°	1529.7	1524.0	1514.9	1503.6	1488.8	1467.2	1453.6	1394.5	1308.2	1199.2	1056.1
20°	1559.2	1556.9	1553.5	1546.7	1539.9	1525.1	1514.9	1459.3	1368.4	1239.0	1084.5
22.5°	1581.9	1579.6	1578.5	1578.5	1579.6	1574.0	1567.1	1519.5	1426.3	1281.0	1110.6
25°	1617.1	1616.0	1613.7	1611.4	1619.4	1620.5	1618.2	1585.3	1499.0	1336.6	1143.6
27.5°	1665.9	1662.5	1658.0	1655.7	1663.7	1669.4	1673.9	1651.2	1576.2	1393.4	1181.0
30°	1740.9	1730.7	1719.3	1711.4	1717.0	1726.1	1736.4	1722.7	1655.7	1463.8	1219.6
32.5°	1829.5	1817.0	1790.9	1776.1	1790.9	1797.7	1805.6	1798.8	1738.6	1539.9	1258.3
35°	1937.4	1922.6	1895.3	1873.8	1899.9	1885.1	1881.7	1874.9	1817.0	1614.8	1301.4
37.5°	2116.8	2095.2	2052.1	2004.4	2004.4	1972.6	1960.1	1939.6	1887.4	1681.8	1343.4
40°	2324.6	2296.2	2240.6	2170.2	2105.4	2039.6	2031.6	2016.8	1970.3	1759.1	1391.1
42.5°	2552.9	2498.4	2421.1	2336.0	2231.5	2156.5	2138.4	2096.3	2050.9	1837.4	1438.8
45°	2806.1	2692.5	2580.1	2537.0	2364.3	2296.2	2262.1	2186.1	2135.0	1919.2	1488.8
47.5°	2847.0	2758.4	2683.5	2676.6	2488.1	2431.3	2392.7	2283.7	2225.8	2006.6	1541.0
50°	2824.3	2770.9	2778.8	2751.6	2579.0	2541.5	2512.0	2388.2	2315.5	2090.7	1588.7
52.5°	2728.9	2758.4	2803.8	2753.9	2665.3	2634.6	2619.9	2500.6	2399.6	2167.9	1631.9
55°	2615.3	2635.8	2733.4	2794.7	2765.2	2738.0	2724.3	2631.2	2482.5	2232.6	1671.6
57.5°	2449.5	2440.4	2548.3	2787.9	2869.7	2853.8	2839.0	2759.5	2559.7	2279.2	1696.6
60°	2200.8	2181.5	2317.8	2651.7	2903.8	2928.7	2921.9	2844.7	2618.7	2278.0	1686.4
62.5°	1770.4	1818.1	2006.6	2429.1	2918.5	2982.1	2969.6	2851.5	2638.0	2212.2	1621.7
65°	1316.2	1384.3	1569.4	2122.5	2898.1	3009.4	2975.3	2740.2	2548.3	2081.6	1479.7
67.5°	948.2	1008.4	1143.6	1746.6	2701.6	2884.5	2844.7	2558.5	2341.6	1896.5	1283.2
70°	648.4	691.6	783.6	1271.9	2306.4	2493.8	2468.8	2287.1	2015.7	1676.2	1042.5
72.5°	457.7	475.8	534.9	839.2	1752.3	1956.7	1927.1	1881.7	1619.4	1393.4	810.8
75°	343.0	354.3	386.1	542.8	1182.2	1355.9	1328.7	1354.8	1209.4	1055.0	590.5
77.5°	129.5	140.8	219.2	346.4	699.5	832.4	805.2	821.0	672.3	532.6	294.1
80°	35.2	37.5	72.7	164.7	318.0	414.5	377.0	323.6	249.8	245.3	155.6
82.5°	14.8	17.0	32.9	88.6	113.6	113.6	95.4	118.1	95.4	114.7	75.0
85°	5.7	6.8	7.9	22.7	14.8	15.9	17.0	22.7	19.3	23.8	17.0
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	1.1	2.3	3.4	3.4	3.4
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°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	911.9	899.4	881.2	851.7	821.0	804.0	782.4	779.0	756.3	754.0	745.0
5°	917.6	891.5	844.9	788.1	732.5	689.3	657.5	640.5	607.6	607.6	598.5
7.5°	922.1	881.2	806.3	722.3	646.2	588.2	545.1	526.9	497.4	495.1	488.3
10°	923.3	868.7	764.3	655.2	562.1	503.1	461.1	440.6	414.5	412.2	407.7
12.5°	932.3	861.9	726.8	597.3	501.9	438.3	397.5	380.4	360.0	357.7	353.2
15°	947.1	861.9	695.0	548.5	448.6	389.5	354.3	338.4	323.6	321.4	319.1
17.5°	961.9	859.7	663.2	503.1	404.3	350.9	320.2	307.8	296.4	295.3	293.0
20°	975.5	858.5	631.4	464.5	370.2	319.1	295.3	283.9	274.8	274.8	273.7
22.5°	989.1	856.3	600.7	428.1	340.7	295.3	274.8	262.3	255.5	255.5	254.4
25°	1009.6	856.3	572.3	397.5	316.8	277.1	256.6	247.6	241.9	240.8	240.8
27.5°	1033.4	863.1	547.4	370.2	296.4	258.9	243.0	233.9	227.1	224.9	226.0
30°	1059.5	868.7	524.7	346.4	277.1	245.3	228.3	219.2	212.4	210.1	211.2
32.5°	1085.6	875.6	504.2	324.8	257.8	232.8	215.8	205.5	198.7	197.6	197.6
35°	1114.0	882.4	483.8	306.6	241.9	220.3	204.4	193.1	188.5	186.2	187.4
37.5°	1142.4	893.7	464.5	289.6	230.5	209.0	194.2	182.8	179.4	178.3	178.3
40°	1176.5	910.8	456.5	278.2	220.3	198.7	186.2	174.9	171.5	171.5	171.5
42.5°	1204.9	924.4	449.7	265.7	212.4	189.6	178.3	169.2	166.9	165.8	166.9
45°	1233.3	936.9	440.6	254.4	202.1	180.6	171.5	162.4	160.1	160.1	160.1
47.5°	1261.7	943.7	428.1	243.0	193.1	172.6	164.7	156.7	154.4	154.4	154.4
50°	1284.4	949.4	410.0	230.5	182.8	165.8	157.9	149.9	147.6	147.6	147.6
52.5°	1307.1	950.5	390.7	215.8	172.6	157.9	151.0	143.1	140.8	139.7	139.7
55°	1327.5	949.4	367.9	198.7	161.3	148.8	143.1	136.3	131.7	127.2	129.5
57.5°	1342.3	948.2	341.8	181.7	149.9	139.7	137.4	128.3	119.2	107.9	110.2
60°	1336.6	935.7	313.4	160.1	137.4	130.6	130.6	118.1	102.2	96.5	97.7
62.5°	1300.3	900.5	283.9	137.4	124.9	121.5	120.4	106.7	94.3	88.6	89.7
65°	1191.3	812.0	240.8	117.0	112.4	111.3	111.3	98.8	87.4	80.6	81.8
67.5°	1025.5	681.4	196.5	98.8	99.9	102.2	102.2	90.8	79.5	72.7	73.8
70°	822.2	532.6	156.7	85.2	86.3	89.7	92.0	81.8	71.5	64.7	64.7
72.5°	618.9	404.3	126.1	71.5	77.2	77.2	80.6	72.7	62.5	55.6	56.8
75°	448.6	289.6	99.9	60.2	67.0	65.9	65.9	61.3	53.4	48.8	48.8
77.5°	212.4	152.2	79.5	43.2	52.2	51.1	52.2	48.8	45.4	40.9	42.0
80°	104.5	75.0	51.1	30.7	36.3	37.5	40.9	38.6	37.5	34.1	34.1
82.5°	50.0	29.5	23.8	21.6	25.0	26.1	28.4	28.4	29.5	27.3	27.3
85°	13.6	7.9	10.2	13.6	15.9	17.0	19.3	20.4	20.4	19.3	20.4
87.5°	3.4	3.4	4.5	6.8	7.9	9.1	10.2	10.2	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)