

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: INVUE

Report Number: P148228

Luminaire Tested: **VXS-E04-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148228
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E04-LED-E1-5XQ-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10736.9 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

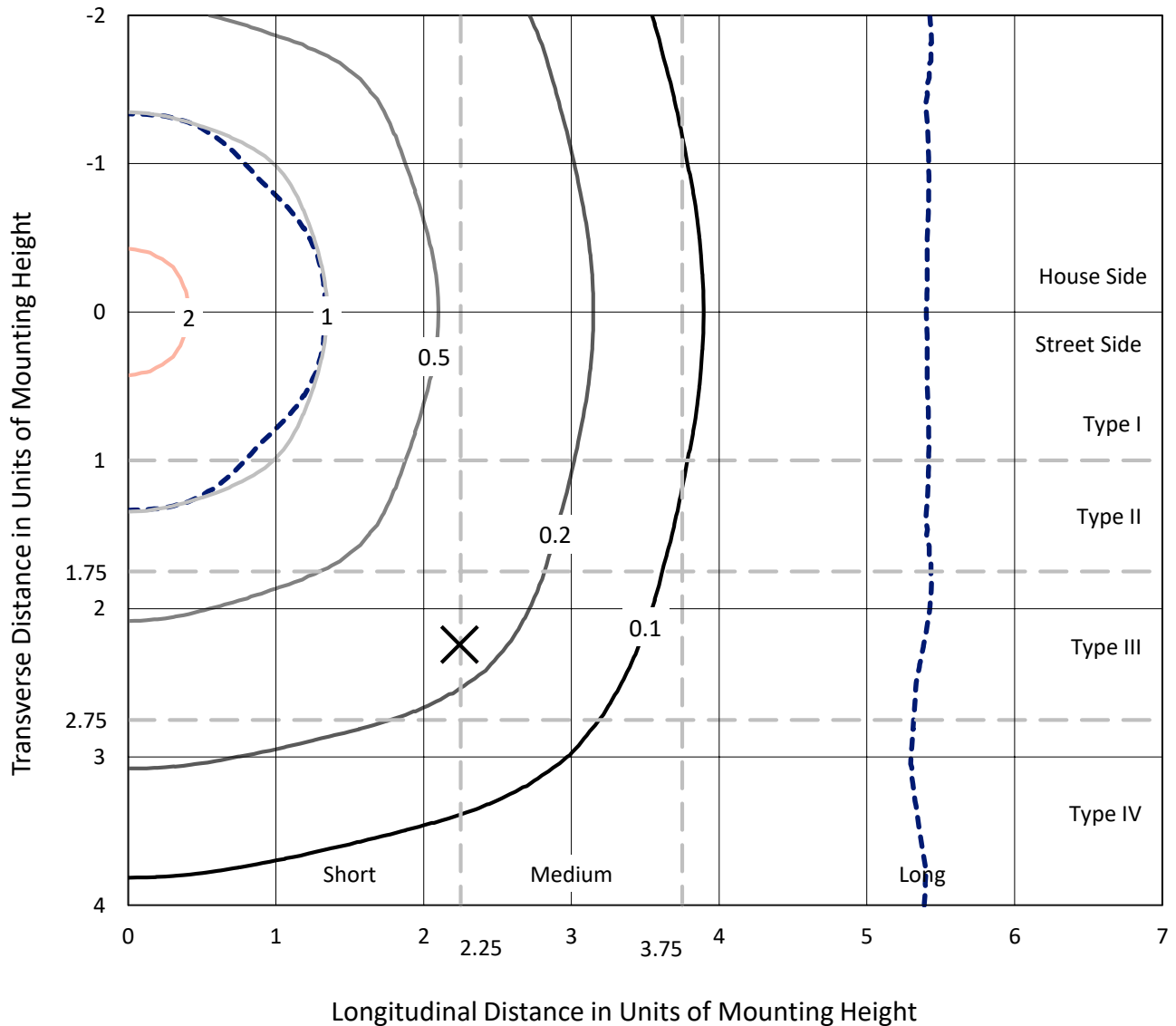
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

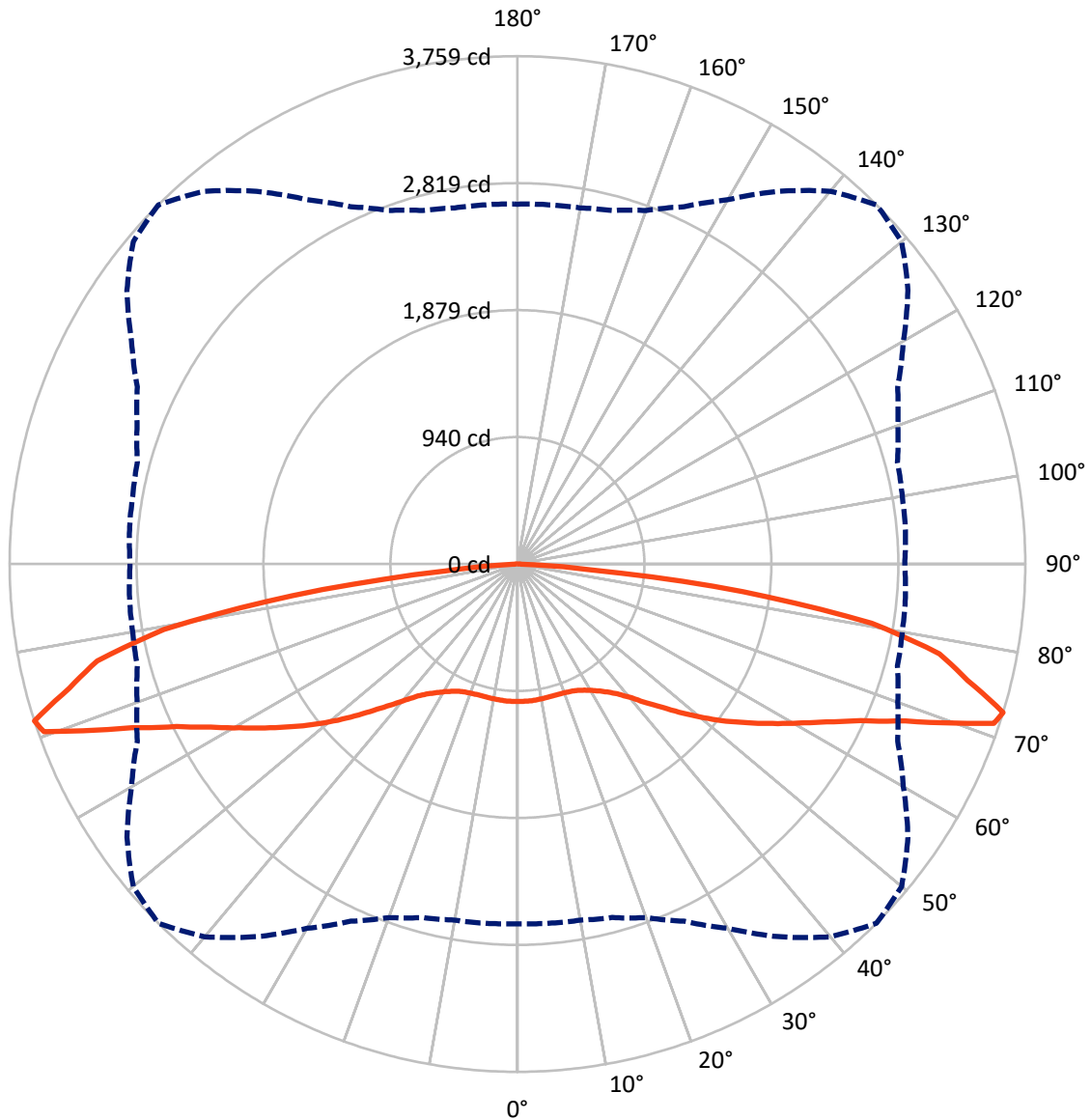
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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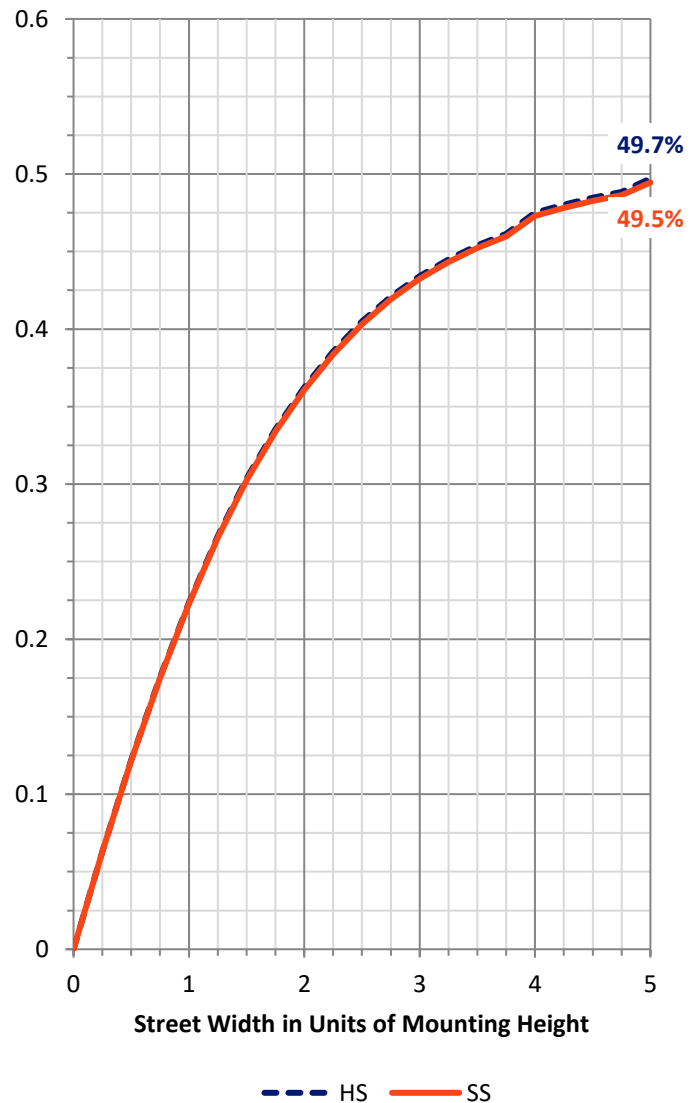
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5368.4	0.0	5368.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5368.4	0.0	5368.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10736.9	0.0	10736.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	0.9
10°-20°	286.8	2.7
20°-30°	480.2	4.5
30°-40°	732.1	6.8
40°-50°	1169.1	10.9
50°-60°	1797.5	16.7
60°-70°	2617.2	24.4
70°-80°	2948.3	27.5
80°-90°	608.6	5.7
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°	10736.9	100.0
0°-180°	10736.9	100.0



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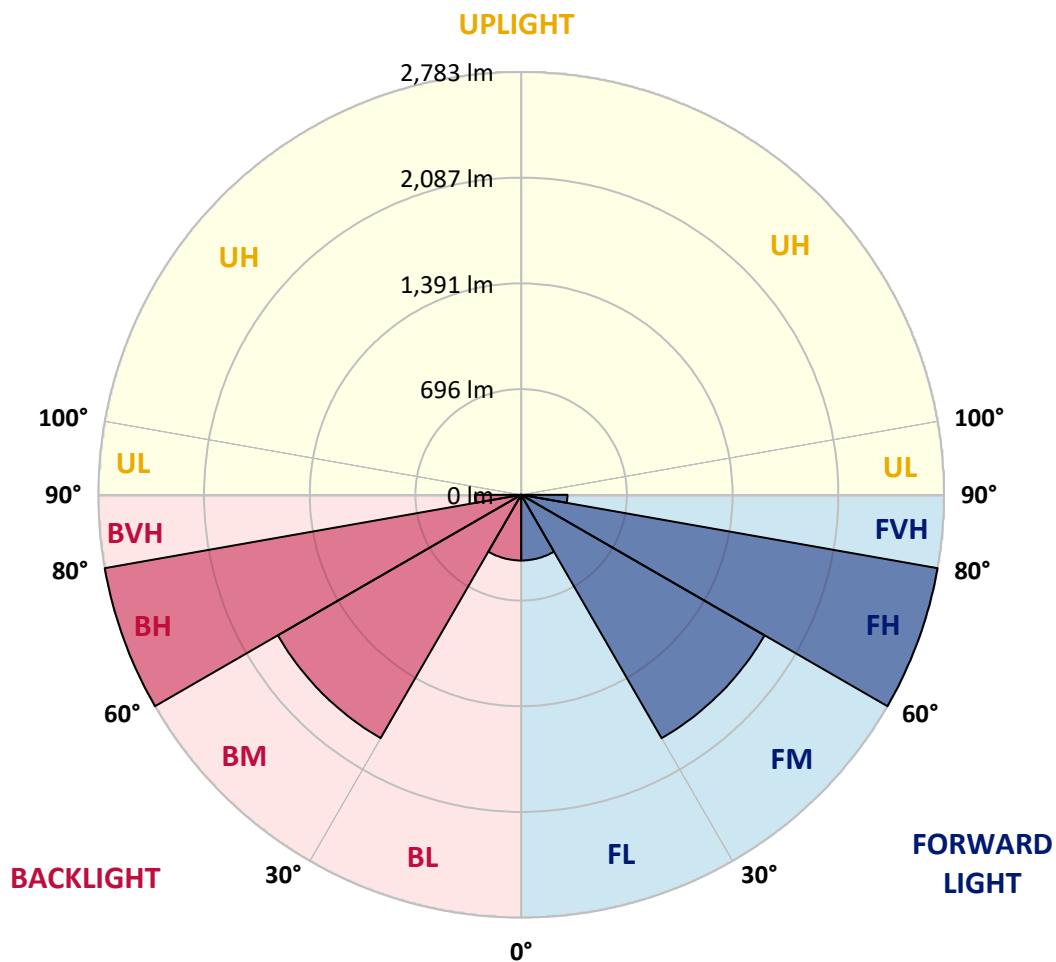
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.0	4.0			
FM	(30°-60°)	1849.4	17.2			
FH	(60°-80°)	2782.7	25.9			G2/5000
FVH	(80°-90°)	304.3	2.8			G3/500
BL	(0°-30°)	432.0	4.0	B1/500		
BM	(30°-60°)	1849.4	17.2	B2/2500		
BH	(60°-80°)	2782.7	25.9	B4/5000		G2/5000
BVH	(80°-90°)	304.3	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1019.0	1019.5	1019.3	1018.7	1019.0	1018.7	1018.1	1017.8	1015.9	1017.0	1018.7
5°	1019.0	1018.4	1018.1	1017.8	1017.8	1018.7	1017.8	1017.0	1016.8	1017.3	1016.5
7.5°	1018.4	1017.3	1016.8	1016.5	1016.8	1017.0	1016.2	1015.0	1015.9	1015.0	1013.9
10°	1016.8	1015.9	1016.2	1015.0	1015.3	1015.0	1013.9	1013.1	1013.7	1012.8	1011.4
12.5°	1017.3	1015.9	1015.5	1015.0	1014.7	1014.5	1013.1	1011.6	1011.9	1011.4	1009.9
15°	1017.3	1016.5	1016.2	1015.0	1014.7	1014.2	1012.5	1012.0	1011.9	1011.1	1009.4
17.5°	1017.8	1017.3	1017.3	1015.9	1015.3	1015.0	1013.1	1012.2	1013.1	1011.4	1010.3
20°	1019.6	1019.1	1019.3	1018.4	1017.3	1017.3	1015.9	1015.3	1015.6	1015.3	1012.2
22.5°	1022.9	1022.9	1023.4	1023.2	1022.9	1023.2	1022.1	1022.1	1022.4	1022.4	1019.8
25°	1032.4	1032.2	1032.7	1032.7	1033.1	1035.0	1034.2	1033.9	1035.2	1035.2	1032.7
27.5°	1050.6	1049.9	1050.5	1051.0	1052.4	1055.0	1054.4	1055.2	1057.5	1057.0	1054.7
30°	1071.3	1070.7	1072.1	1073.8	1074.9	1079.0	1077.2	1081.5	1083.4	1085.1	1083.4
32.5°	1101.8	1101.7	1104.2	1105.4	1107.9	1111.8	1112.4	1115.8	1118.3	1121.1	1119.2
35°	1142.2	1141.7	1143.6	1145.6	1148.7	1152.3	1153.8	1158.2	1162.2	1164.1	1160.4
37.5°	1204.1	1201.0	1204.7	1205.8	1208.3	1209.1	1213.1	1218.8	1223.0	1222.4	1219.9
40°	1288.0	1287.4	1286.0	1284.2	1288.2	1289.6	1289.5	1297.2	1304.0	1302.8	1302.6
42.5°	1385.9	1383.2	1381.6	1381.7	1383.8	1384.5	1393.2	1398.8	1403.5	1404.7	1403.5
45°	1491.0	1488.5	1489.1	1487.9	1488.8	1492.4	1497.5	1507.9	1517.0	1517.2	1512.4
47.5°	1604.1	1596.3	1602.5	1593.7	1599.1	1601.9	1614.5	1629.7	1645.5	1648.3	1644.1
50°	1719.0	1718.1	1717.5	1715.9	1718.3	1724.6	1740.0	1763.9	1779.2	1789.2	1782.5
52.5°	1844.4	1840.2	1838.2	1835.4	1837.9	1850.1	1871.7	1892.5	1919.8	1931.4	1922.1
55°	1966.5	1965.1	1957.7	1957.5	1962.8	1981.7	2005.4	2030.9	2060.4	2073.4	2070.1
57.5°	2092.0	2083.8	2081.6	2078.1	2088.9	2106.6	2135.5	2181.8	2212.4	2227.0	2218.7
60°	2214.7	2208.5	2203.6	2202.6	2209.8	2234.6	2276.3	2331.6	2369.6	2388.8	2375.2
62.5°	2346.2	2342.4	2336.8	2330.3	2345.7	2377.5	2429.2	2490.6	2546.6	2570.2	2549.7
65°	2510.1	2501.9	2495.6	2487.5	2500.2	2540.1	2605.2	2691.5	2766.6	2794.2	2779.5
67.5°	2682.8	2675.2	2675.8	2670.7	2693.2	2748.6	2832.4	2949.7	3050.5	3097.5	3069.8
70°	2833.6	2837.7	2839.0	2859.5	2898.2	2982.6	3122.2	3305.9	3458.7	3530.4	3500.8
71°	2789.1	2798.3	2812.7	2834.2	2901.0	3000.9	3191.4	3413.9	3596.3	3717.7	3677.0
72.5°	2663.0	2668.7	2676.1	2708.6	2784.4	2916.6	3112.6	3366.9	3601.2	3758.5	3711.3
75°	2480.8	2486.1	2488.7	2511.5	2580.3	2695.8	2875.2	3100.8	3307.6	3441.6	3428.3
77.5°	2205.6	2206.5	2226.1	2261.3	2338.7	2470.6	2659.7	2893.8	3088.1	3192.2	3126.1
80°	1583.8	1573.3	1593.5	1638.8	1734.4	1885.7	2079.3	2346.5	2562.4	2659.7	2557.3
82.5°	602.6	635.2	686.7	761.6	793.9	962.2	1142.8	1299.8	1481.5	1684.6	1633.7
85°	64.7	72.8	91.4	113.4	143.2	198.0	273.8	373.7	460.5	541.3	480.5
87.5°	24.2	24.8	27.6	31.8	32.3	33.8	36.1	41.9	39.1	33.8	27.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1017.3	1017.6	1017.3	1017.6	1017.6	1016.4	1016.7	1016.2
5°	1017.0	1016.2	1016.5	1016.7	1016.5	1017.0	1016.2	1016.7
7.5°	1015.5	1013.9	1014.5	1014.5	1013.9	1014.7	1014.2	1013.9
10°	1012.8	1010.6	1011.6	1011.1	1010.8	1011.1	1011.1	1011.1
12.5°	1010.3	1008.9	1009.1	1008.9	1008.6	1009.4	1009.1	1009.4
15°	1009.7	1007.5	1007.2	1006.6	1006.8	1007.5	1007.5	1008.3
17.5°	1009.1	1006.3	1006.0	1005.5	1005.8	1006.8	1007.2	1006.6
20°	1010.8	1008.6	1008.1	1007.5	1007.2	1008.6	1008.3	1008.3
22.5°	1018.7	1015.9	1015.5	1013.4	1012.5	1013.4	1012.7	1012.8
25°	1031.3	1028.0	1026.8	1023.7	1021.6	1021.6	1020.6	1020.1
27.5°	1054.2	1049.1	1048.0	1045.4	1042.3	1042.9	1041.2	1040.9
30°	1080.6	1076.1	1072.1	1068.5	1064.9	1063.4	1061.5	1061.1
32.5°	1115.2	1110.2	1105.3	1100.8	1095.8	1093.9	1090.5	1088.7
35°	1157.7	1150.9	1145.3	1142.2	1137.2	1134.6	1132.3	1134.8
37.5°	1217.0	1208.9	1206.0	1202.4	1199.1	1195.1	1196.0	1195.1
40°	1299.2	1291.8	1289.1	1282.6	1281.8	1277.3	1280.0	1277.3
42.5°	1400.7	1387.3	1385.3	1380.2	1378.5	1376.0	1377.1	1375.1
45°	1511.3	1499.2	1497.0	1488.8	1489.1	1483.2	1485.4	1485.4
47.5°	1635.6	1623.0	1612.5	1606.6	1604.5	1600.7	1602.7	1602.5
50°	1763.9	1746.7	1735.2	1723.7	1718.7	1720.1	1716.1	1722.9
52.5°	1901.8	1876.3	1859.9	1848.9	1839.4	1841.2	1841.9	1843.9
55°	2044.5	2011.8	1988.2	1973.8	1965.1	1965.7	1968.2	1970.4
57.5°	2188.0	2147.2	2115.0	2093.7	2088.1	2090.6	2090.6	2090.3
60°	2336.8	2287.8	2246.4	2222.2	2217.2	2215.8	2226.7	2223.0
62.5°	2496.5	2437.7	2394.9	2364.0	2356.7	2361.8	2371.6	2369.3
65°	2708.4	2627.0	2571.9	2541.2	2528.9	2534.0	2547.2	2546.6
67.5°	2981.6	2867.9	2795.0	2755.6	2746.6	2752.8	2760.1	2767.3
70°	3390.1	3227.8	3123.6	3038.3	3001.8	2994.8	3002.1	3002.4
71°	3533.8	3347.3	3181.6	3077.5	3017.6	2992.2	2994.2	2981.6
72.5°	3527.9	3298.0	3104.2	2995.3	2912.1	2891.8	2882.0	2866.7
75°	3290.2	3083.1	2914.8	2796.2	2716.0	2692.0	2674.6	2673.8
77.5°	2983.8	2831.0	2645.6	2519.9	2422.2	2382.6	2364.9	2364.2
80°	2398.5	2169.9	2034.3	1958.7	1840.7	1806.6	1770.7	1757.2
82.5°	1450.6	1133.5	921.7	819.0	762.1	627.7	563.2	532.8
85°	337.8	240.0	165.4	108.6	78.2	62.2	47.9	42.3
87.5°	22.8	18.0	16.0	13.0	9.8	9.5	5.9	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)