

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: P180187

Luminaire Tested: **ICM-E04-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180187
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: ICM-E04-LED-E1-5XQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10808.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

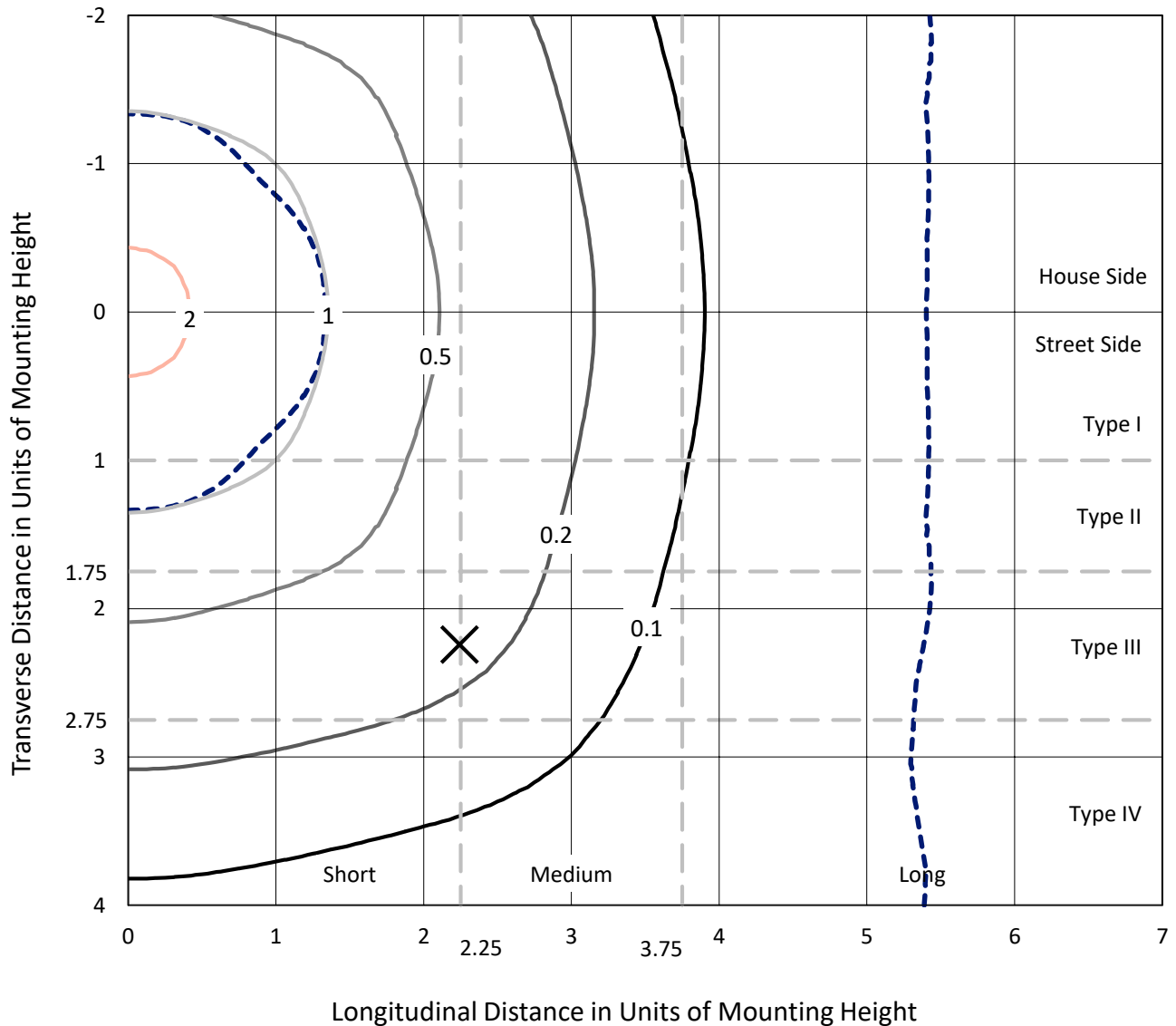
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

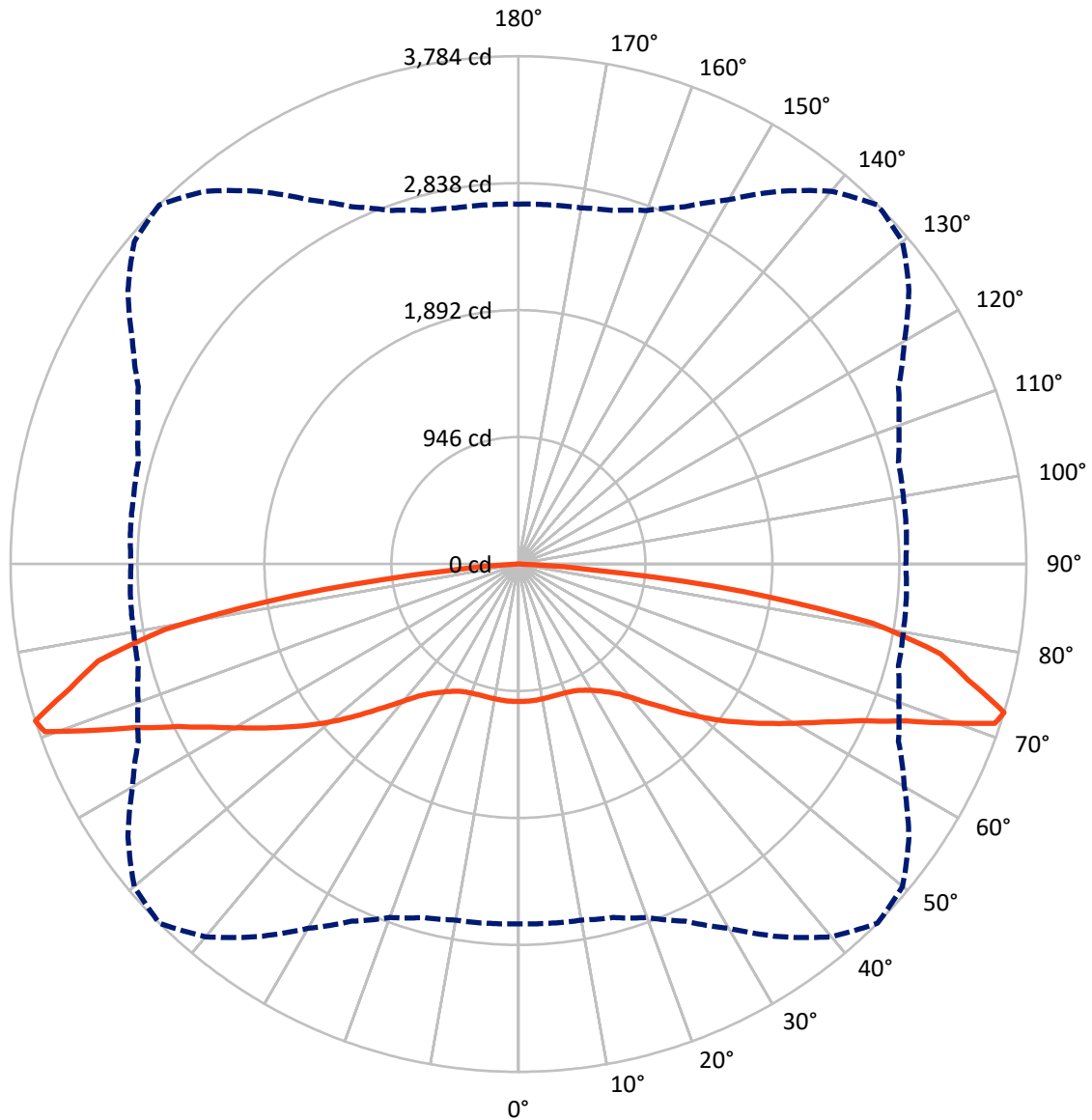
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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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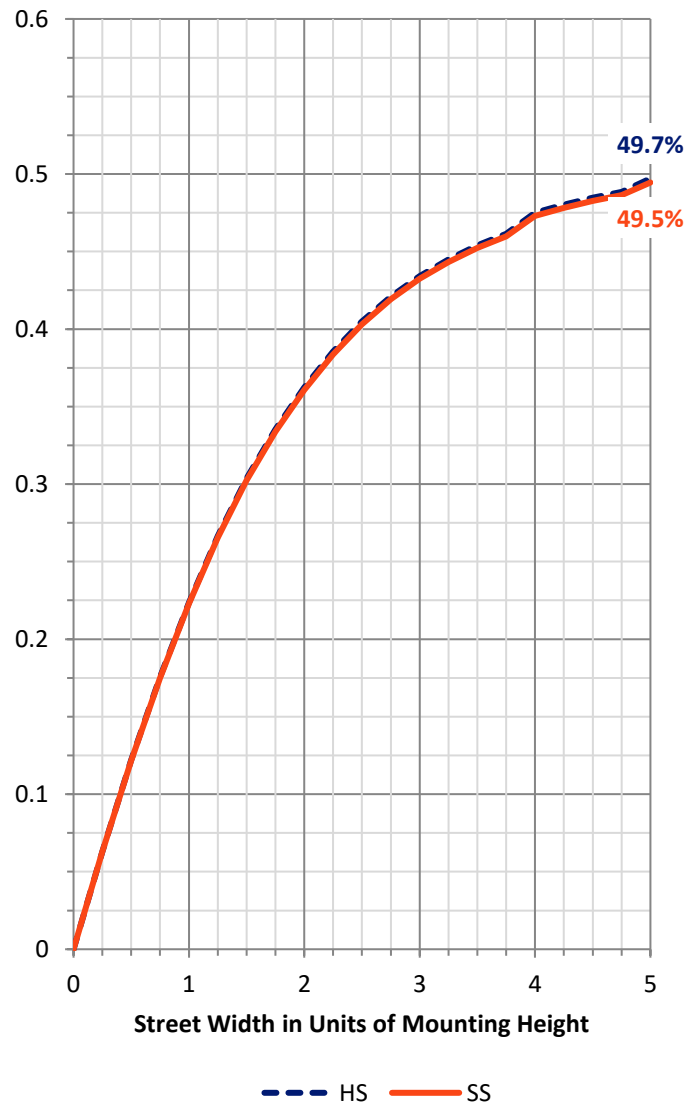
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5404.3	0.0	5404.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5404.3	0.0	5404.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10808.6	0.0	10808.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	0.9
10°-20°	288.7	2.7
20°-30°	483.5	4.5
30°-40°	737.0	6.8
40°-50°	1176.9	10.9
50°-60°	1809.5	16.7
60°-70°	2634.7	24.4
70°-80°	2968.0	27.5
80°-90°	612.7	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°	10808.6	100.0
0°-180°	10808.6	100.0

Coefficient of Utilization



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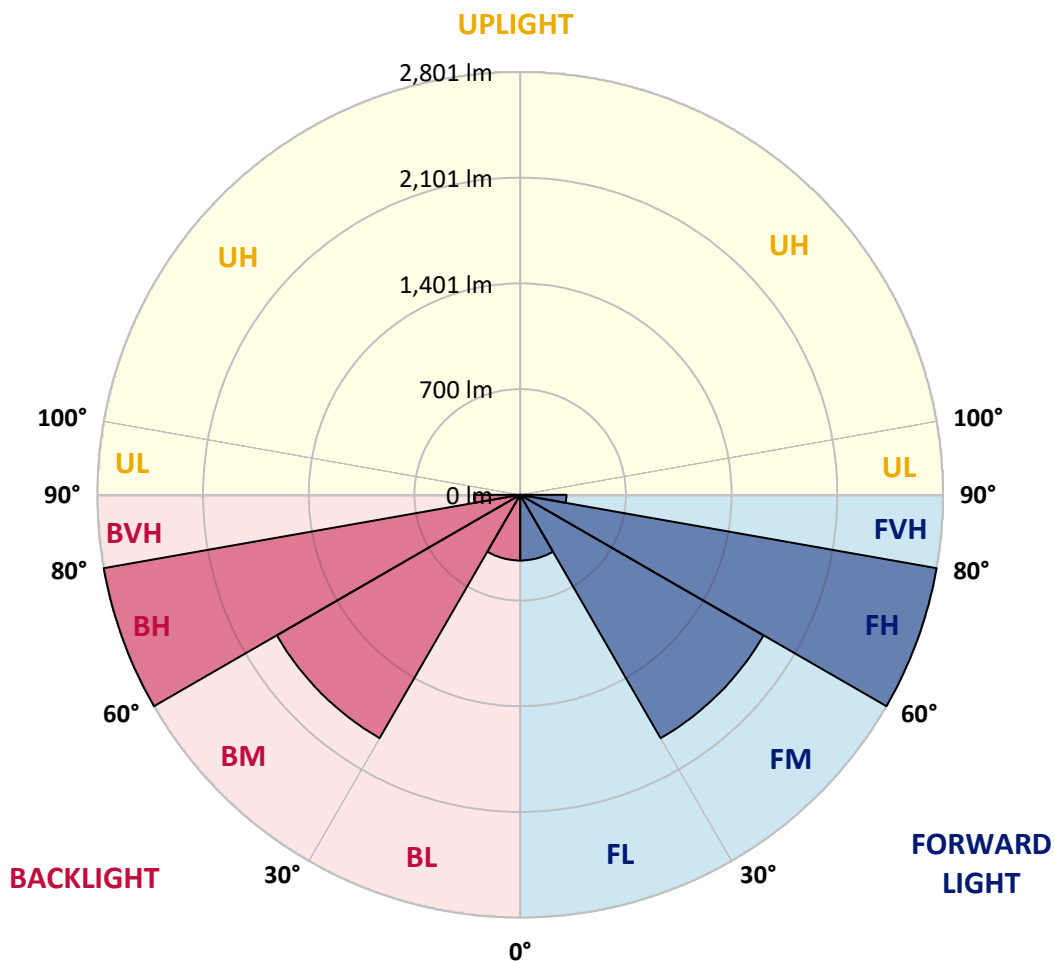
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.9	4.0			
FM	(30°-60°)	1861.7	17.2			
FH	(60°-80°)	2801.3	25.9			G2/5000
FVH	(80°-90°)	306.3	2.8			G3/500
BL	(0°-30°)	434.9	4.0	B1/500		
BM	(30°-60°)	1861.7	17.2	B2/2500		
BH	(60°-80°)	2801.3	25.9	B4/5000		G2/5000
BVH	(80°-90°)	306.3	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°	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1025.8	1026.3	1026.1	1025.5	1025.8	1025.5	1024.9	1024.7	1022.7	1023.8	1025.5
5°	1025.8	1025.2	1024.9	1024.7	1024.7	1025.5	1024.7	1023.8	1023.5	1024.1	1023.3
7.5°	1025.2	1024.1	1023.5	1023.3	1023.5	1023.8	1023.0	1021.8	1022.7	1021.8	1020.7
10°	1023.4	1022.7	1023.0	1021.9	1022.1	1021.8	1020.7	1019.9	1020.4	1019.5	1018.1
12.5°	1024.0	1022.7	1022.4	1021.8	1021.6	1021.2	1019.8	1018.4	1018.7	1018.1	1016.8
15°	1024.0	1023.3	1023.0	1021.8	1021.6	1021.0	1019.3	1018.7	1018.7	1017.9	1016.2
17.5°	1024.7	1024.1	1024.1	1022.7	1022.1	1021.9	1019.9	1019.0	1019.8	1018.1	1017.0
20°	1026.4	1025.8	1026.1	1025.2	1024.1	1024.1	1022.7	1022.1	1022.4	1022.1	1019.0
22.5°	1029.8	1029.8	1030.3	1030.1	1029.8	1030.1	1028.9	1028.8	1029.2	1029.2	1026.6
25°	1039.4	1039.1	1039.6	1039.6	1039.9	1041.9	1041.1	1040.8	1042.2	1042.2	1039.6
27.5°	1057.5	1056.9	1057.5	1058.1	1059.4	1062.1	1061.5	1062.3	1064.6	1064.0	1061.8
30°	1078.5	1078.0	1079.3	1081.0	1082.1	1086.1	1084.5	1088.7	1090.6	1092.4	1090.6
32.5°	1109.0	1109.0	1111.6	1112.8	1115.3	1119.3	1119.8	1123.2	1125.8	1128.6	1126.6
35°	1149.9	1149.3	1151.3	1153.2	1156.3	1160.0	1161.5	1166.0	1170.0	1171.9	1168.2
37.5°	1212.2	1209.0	1212.7	1213.9	1216.4	1217.3	1221.2	1226.9	1231.1	1230.5	1228.0
40°	1296.6	1296.0	1294.5	1292.8	1296.8	1298.2	1298.2	1305.9	1312.7	1311.5	1311.3
42.5°	1395.2	1392.6	1390.8	1390.9	1393.1	1393.7	1402.4	1408.1	1412.9	1414.1	1412.9
45°	1501.0	1498.4	1499.0	1497.9	1498.7	1502.4	1507.5	1518.1	1527.1	1527.4	1522.5
47.5°	1614.9	1606.9	1613.2	1604.4	1609.8	1612.6	1625.3	1640.7	1656.5	1659.4	1655.1
50°	1730.4	1729.6	1729.0	1727.3	1729.9	1736.1	1751.6	1775.7	1791.1	1801.2	1794.4
52.5°	1856.8	1852.5	1850.4	1847.6	1850.2	1862.3	1884.2	1905.1	1932.7	1944.2	1934.9
55°	1979.6	1978.2	1970.9	1970.6	1975.9	1994.9	2018.7	2044.5	2074.2	2087.3	2083.9
57.5°	2106.0	2097.7	2095.5	2092.1	2102.8	2120.7	2149.9	2196.3	2227.2	2241.9	2233.4
60°	2229.4	2223.2	2218.4	2217.3	2224.6	2249.5	2291.5	2347.2	2385.5	2404.8	2391.2
62.5°	2362.0	2358.0	2352.4	2345.9	2361.4	2393.4	2445.5	2507.3	2563.6	2587.4	2566.7
65°	2526.8	2518.6	2512.4	2504.2	2516.9	2557.1	2622.5	2709.4	2785.1	2812.9	2798.2
67.5°	2700.7	2693.0	2693.6	2688.6	2711.2	2767.0	2851.4	2969.5	3070.9	3118.2	3090.3
70°	2852.5	2856.8	2857.9	2878.5	2917.6	3002.6	3143.1	3328.0	3481.8	3554.1	3524.3
71°	2807.7	2817.1	2831.6	2853.0	2920.5	3021.0	3212.8	3436.8	3620.3	3742.6	3701.6
72.5°	2680.9	2686.5	2694.0	2726.7	2802.9	2936.0	3133.4	3389.4	3625.4	3783.7	3736.1
75°	2497.3	2502.7	2505.3	2528.2	2597.6	2713.7	2894.3	3121.5	3329.7	3464.5	3451.2
77.5°	2220.4	2221.2	2241.0	2276.5	2354.3	2487.2	2677.5	2913.1	3108.9	3213.6	3147.1
80°	1594.4	1583.7	1604.1	1649.7	1746.0	1898.4	2093.2	2362.2	2579.5	2677.5	2574.3
82.5°	606.7	639.4	691.4	766.7	799.3	968.6	1150.4	1308.5	1491.4	1695.8	1644.6
85°	65.1	73.3	92.0	114.1	144.2	199.4	275.5	376.1	463.6	544.9	483.7
87.5°	24.4	24.9	27.7	32.0	32.6	34.0	36.3	42.2	39.3	34.0	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°	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1024.1	1024.4	1024.1	1024.4	1024.4	1023.2	1023.4	1022.9
5°	1023.8	1023.0	1023.3	1023.5	1023.3	1023.8	1022.9	1023.4
7.5°	1022.3	1020.7	1021.2	1021.2	1020.7	1021.5	1021.0	1020.7
10°	1019.5	1017.3	1018.4	1017.9	1017.6	1017.9	1017.9	1017.9
12.5°	1017.0	1015.6	1015.9	1015.6	1015.3	1016.2	1015.9	1016.2
15°	1016.4	1014.1	1013.9	1013.3	1013.6	1014.1	1014.1	1015.0
17.5°	1015.9	1013.0	1012.8	1012.2	1012.5	1013.6	1013.9	1013.3
20°	1017.6	1015.3	1014.7	1014.1	1013.9	1015.4	1015.0	1015.0
22.5°	1025.5	1022.7	1022.4	1020.1	1019.3	1020.1	1019.5	1019.5
25°	1038.2	1034.9	1033.7	1030.6	1028.4	1028.4	1027.5	1026.9
27.5°	1061.2	1056.1	1055.0	1052.4	1049.3	1049.9	1048.2	1047.8
30°	1087.8	1083.3	1079.3	1075.6	1072.0	1070.5	1068.6	1068.3
32.5°	1122.7	1117.6	1112.8	1108.2	1103.1	1101.1	1097.8	1096.0
35°	1165.4	1158.6	1152.9	1149.9	1144.8	1142.1	1139.9	1142.5
37.5°	1225.1	1216.9	1214.1	1210.4	1207.1	1203.1	1203.9	1203.1
40°	1307.8	1300.5	1297.7	1291.2	1290.3	1285.8	1288.7	1285.8
42.5°	1410.1	1396.5	1394.5	1389.4	1387.7	1385.2	1386.3	1384.4
45°	1521.4	1509.2	1507.0	1498.8	1499.0	1493.0	1495.4	1495.4
47.5°	1646.5	1633.9	1623.4	1617.4	1615.2	1611.5	1613.4	1613.1
50°	1775.7	1758.5	1746.9	1735.3	1730.2	1731.5	1727.6	1734.4
52.5°	1914.5	1888.8	1872.3	1861.3	1851.6	1853.6	1854.2	1856.2
55°	2058.1	2025.2	2001.5	1987.0	1978.2	1978.8	1981.3	1983.6
57.5°	2202.5	2161.5	2129.2	2107.6	2102.0	2104.6	2104.6	2104.2
60°	2352.4	2303.1	2261.4	2237.1	2232.0	2230.5	2241.6	2238.0
62.5°	2513.2	2454.1	2411.0	2379.8	2372.5	2377.5	2387.5	2385.1
65°	2726.4	2644.6	2589.1	2558.2	2545.8	2550.9	2564.2	2563.6
67.5°	3001.5	2887.1	2813.7	2774.1	2765.0	2771.2	2778.6	2785.7
70°	3412.7	3249.3	3144.5	3058.6	3021.9	3014.8	3022.2	3022.4
71°	3557.4	3369.6	3202.8	3098.1	3037.8	3012.3	3014.2	3001.4
72.5°	3551.5	3320.1	3124.9	3015.4	2931.6	2911.1	2901.2	2886.0
75°	3312.2	3103.7	2934.3	2814.9	2734.2	2710.1	2692.5	2691.6
77.5°	3003.7	2850.0	2663.3	2536.7	2438.4	2398.5	2380.7	2380.1
80°	2414.7	2184.4	2047.9	1971.7	1853.0	1818.8	1782.5	1768.9
82.5°	1460.2	1141.0	927.8	824.4	767.3	631.8	567.0	536.5
85°	340.1	241.6	166.5	109.3	78.7	62.6	48.2	42.4
87.5°	22.9	18.1	16.2	13.0	9.9	9.7	6.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)