

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: P180202

Luminaire Tested: **ICM-F05-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180202
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-F05-LED-E1-5XQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11153.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

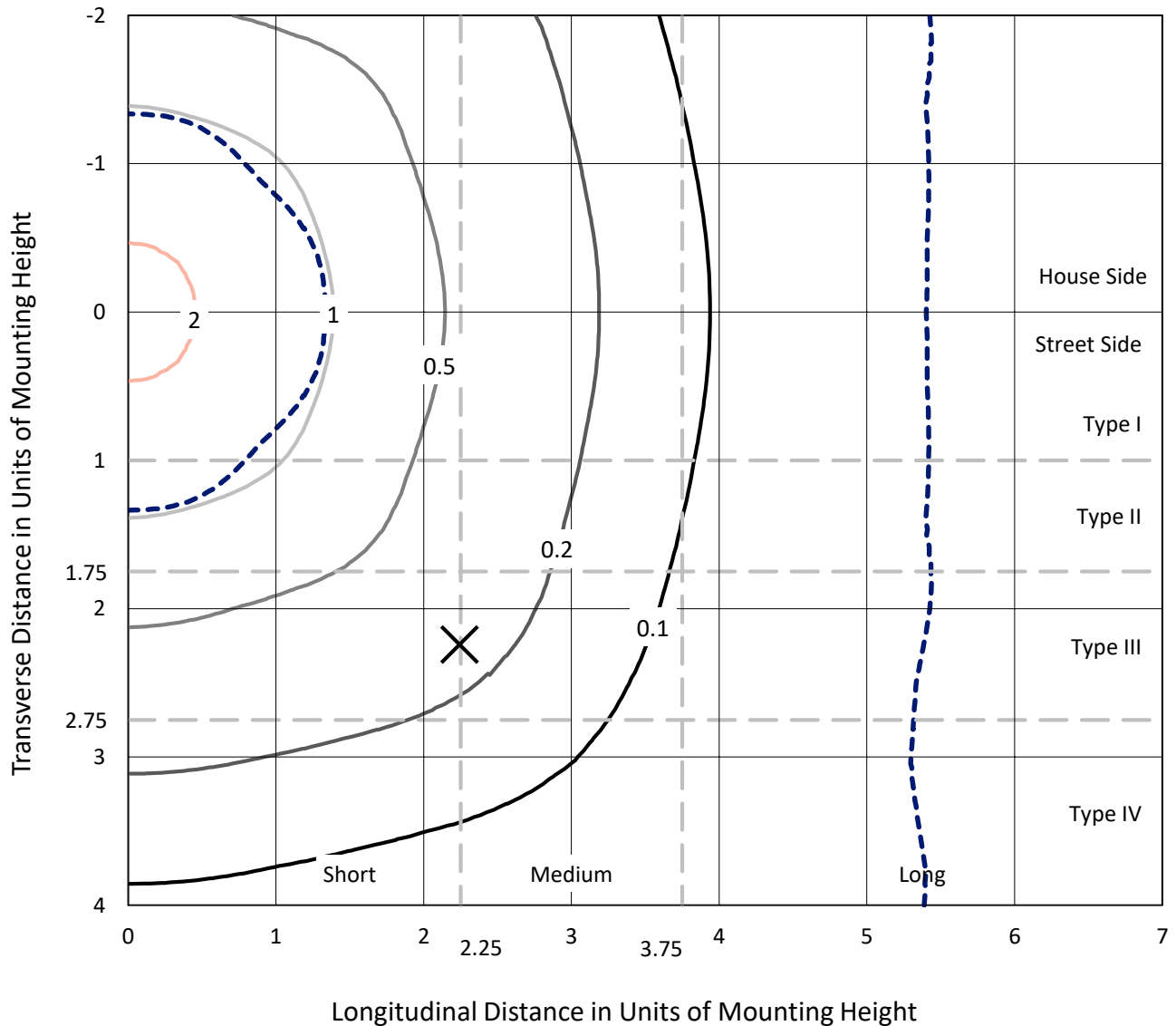
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

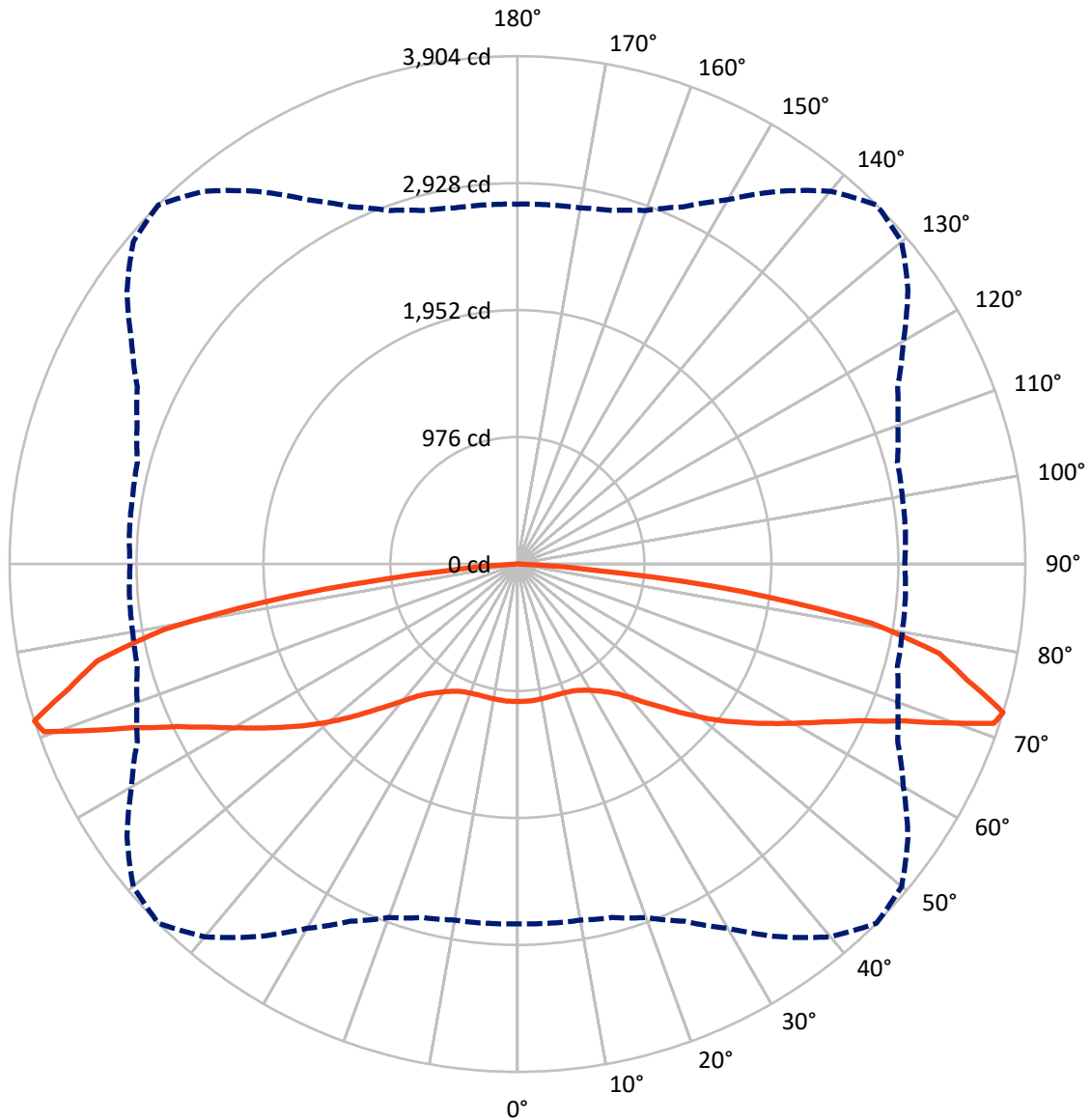
× Max cd
 - - - 1/2 Max cd



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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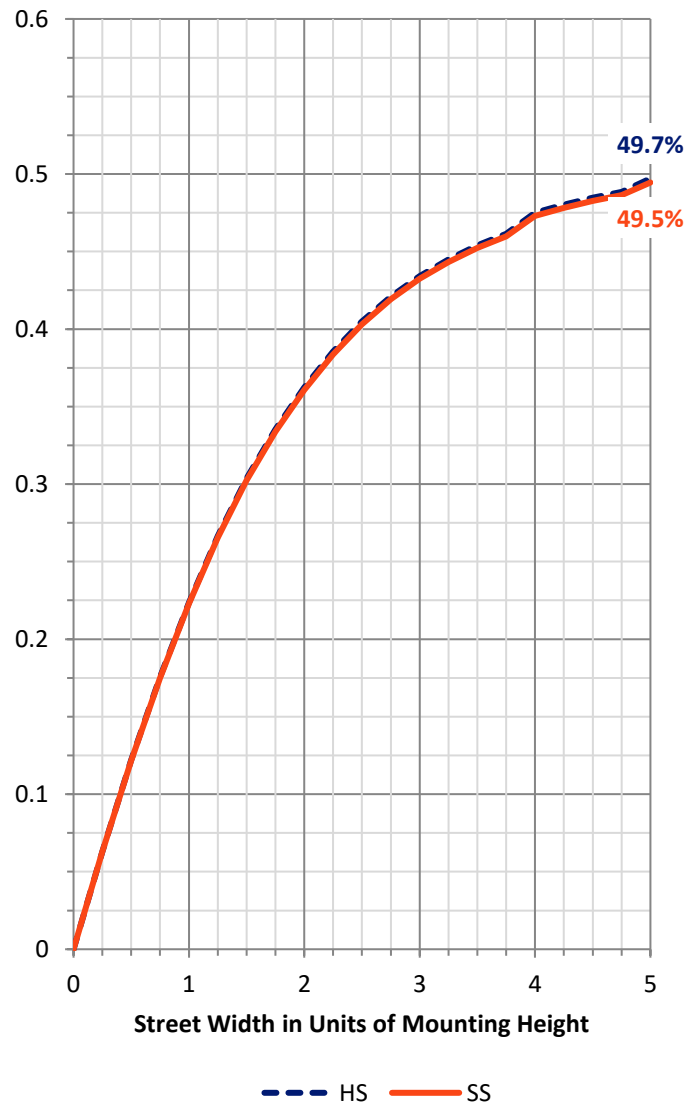
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5576.7	0.0	5576.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5576.7	0.0	5576.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11153.5	0.0	11153.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	0.9
10°-20°	297.9	2.7
20°-30°	498.9	4.5
30°-40°	760.6	6.8
40°-50°	1214.4	10.9
50°-60°	1867.3	16.7
60°-70°	2718.8	24.4
70°-80°	3062.7	27.5
80°-90°	632.2	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°	11153.5	100.0
0°-180°	11153.5	100.0



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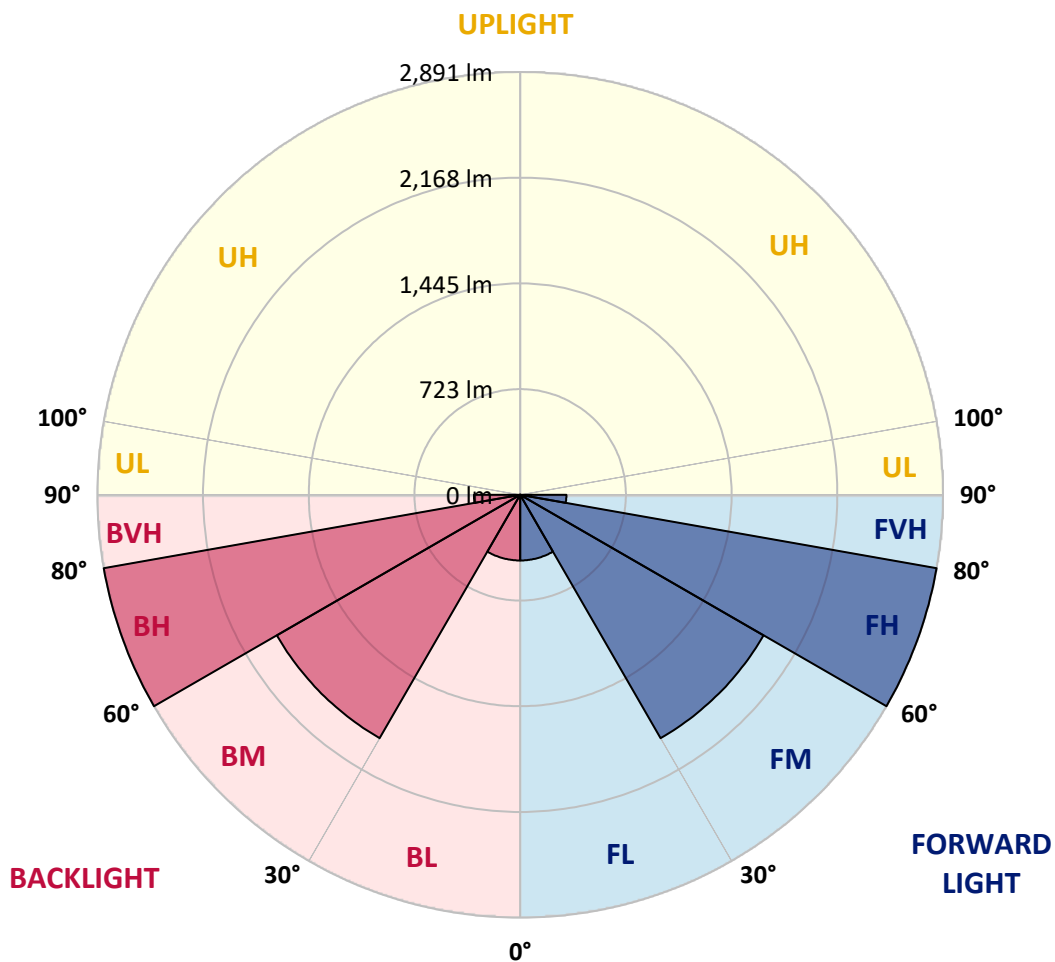
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.8	4.0			
FM	(30°-60°)	1921.1	17.2			
FH	(60°-80°)	2890.7	25.9			G2/5000
FVH	(80°-90°)	316.1	2.8			G3/500
BL	(0°-30°)	448.8	4.0	B1/500		
BM	(30°-60°)	1921.1	17.2	B2/2500		
BH	(60°-80°)	2890.7	25.9	B4/5000		G2/5000
BVH	(80°-90°)	316.1	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°	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8
2.5°	1058.5	1059.2	1058.8	1058.2	1058.5	1058.2	1057.7	1057.3	1055.3	1056.5	1058.2
5°	1058.5	1058.0	1057.7	1057.3	1057.3	1058.2	1057.4	1056.5	1056.2	1056.8	1055.9
7.5°	1058.0	1056.8	1056.2	1055.9	1056.2	1056.5	1055.6	1054.4	1055.4	1054.4	1053.2
10°	1056.2	1055.3	1055.6	1054.4	1054.7	1054.4	1053.2	1052.4	1052.9	1052.1	1050.6
12.5°	1056.8	1055.4	1055.1	1054.4	1054.1	1053.9	1052.4	1051.0	1051.2	1050.6	1049.1
15°	1056.8	1055.9	1055.6	1054.4	1054.1	1053.6	1051.8	1051.2	1051.2	1050.3	1048.6
17.5°	1057.3	1056.8	1056.8	1055.4	1054.7	1054.4	1052.4	1051.5	1052.4	1050.6	1049.5
20°	1059.1	1058.5	1058.8	1058.0	1056.8	1056.8	1055.3	1054.7	1055.0	1054.7	1051.5
22.5°	1062.6	1062.6	1063.2	1062.9	1062.6	1062.9	1061.8	1061.8	1062.1	1062.1	1059.4
25°	1072.6	1072.2	1072.8	1072.8	1073.1	1075.2	1074.3	1074.1	1075.5	1075.4	1072.8
27.5°	1091.3	1090.7	1091.3	1091.8	1093.3	1095.9	1095.4	1096.2	1098.5	1098.0	1095.6
30°	1112.9	1112.3	1113.8	1115.5	1116.7	1120.8	1119.0	1123.4	1125.4	1127.2	1125.4
32.5°	1144.4	1144.4	1147.1	1148.3	1150.9	1155.0	1155.5	1159.1	1161.7	1164.6	1162.5
35°	1186.5	1185.9	1188.0	1190.1	1193.2	1197.0	1198.5	1203.2	1207.3	1209.3	1205.5
37.5°	1250.8	1247.6	1251.4	1252.6	1255.2	1256.1	1260.2	1266.0	1270.4	1269.8	1267.2
40°	1337.9	1337.3	1335.9	1334.1	1338.2	1339.6	1339.6	1347.5	1354.6	1353.4	1353.1
42.5°	1439.6	1436.9	1435.3	1435.3	1437.6	1438.1	1447.3	1453.0	1458.1	1459.2	1458.1
45°	1548.9	1546.2	1546.9	1545.7	1546.6	1550.3	1555.6	1566.4	1575.8	1576.1	1571.2
47.5°	1666.4	1658.2	1664.7	1655.5	1661.1	1664.0	1677.2	1693.0	1709.4	1712.3	1707.9
50°	1785.7	1784.8	1784.2	1782.4	1785.0	1791.5	1807.5	1832.4	1848.2	1858.7	1851.7
52.5°	1915.9	1911.6	1909.5	1906.6	1909.2	1921.9	1944.3	1966.0	1994.2	2006.2	1996.7
55°	2042.8	2041.3	2033.7	2033.5	2039.0	2058.6	2083.2	2109.8	2140.5	2153.9	2150.3
57.5°	2173.1	2164.7	2162.3	2158.8	2170.0	2188.3	2218.4	2266.3	2298.2	2313.4	2304.7
60°	2300.6	2294.2	2289.1	2288.0	2295.6	2321.3	2364.6	2422.2	2461.6	2481.5	2467.5
62.5°	2437.3	2433.2	2427.5	2420.7	2436.8	2469.8	2523.6	2587.3	2645.4	2670.0	2648.7
65°	2607.5	2598.9	2592.6	2584.0	2597.2	2638.7	2706.2	2795.9	2874.0	2902.5	2887.5
67.5°	2786.8	2779.0	2779.6	2774.3	2797.7	2855.3	2942.3	3064.2	3168.9	3217.7	3189.0
70°	2943.5	2947.9	2949.0	2970.4	3010.7	3098.4	3243.4	3434.3	3592.9	3667.4	3636.7
71°	2897.3	2907.0	2921.9	2944.1	3013.6	3117.4	3315.3	3546.4	3735.8	3862.1	3819.7
72.5°	2766.4	2772.2	2779.9	2813.8	2892.4	3029.8	3233.4	3497.6	3741.0	3904.4	3855.4
75°	2577.0	2582.5	2585.2	2608.9	2680.5	2800.3	2986.8	3221.1	3435.9	3575.1	3561.3
77.5°	2291.2	2292.1	2312.6	2349.1	2429.4	2566.5	2762.9	3006.1	3208.0	3316.1	3247.5
80°	1645.4	1634.2	1655.3	1702.3	1801.7	1958.9	2160.0	2437.6	2661.8	2762.9	2656.5
82.5°	626.0	659.9	713.4	791.1	824.7	999.4	1187.1	1350.1	1539.0	1750.0	1697.1
85°	67.2	75.7	95.0	117.8	148.7	205.8	284.4	388.1	478.4	562.2	499.2
87.5°	25.1	25.7	28.7	33.0	33.7	35.1	37.4	43.5	40.7	35.1	28.4
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°	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8
2.5°	1056.8	1057.0	1056.8	1057.0	1057.0	1055.9	1056.2	1055.6
5°	1056.5	1055.6	1055.9	1056.2	1055.9	1056.5	1055.6	1056.2
7.5°	1055.1	1053.2	1053.9	1053.9	1053.2	1054.1	1053.6	1053.2
10°	1052.1	1049.8	1051.0	1050.3	1050.1	1050.3	1050.3	1050.3
12.5°	1049.5	1048.0	1048.3	1048.0	1047.7	1048.6	1048.3	1048.6
15°	1048.8	1046.5	1046.2	1045.7	1046.0	1046.5	1046.5	1047.4
17.5°	1048.3	1045.4	1045.0	1044.5	1044.8	1046.0	1046.2	1045.7
20°	1050.1	1047.7	1047.1	1046.5	1046.2	1047.7	1047.4	1047.4
22.5°	1058.2	1055.3	1055.1	1052.7	1051.8	1052.7	1052.1	1052.1
25°	1071.4	1067.9	1066.7	1063.4	1061.1	1061.2	1060.3	1059.7
27.5°	1095.1	1089.8	1088.6	1086.0	1082.8	1083.4	1081.7	1081.3
30°	1122.5	1117.8	1113.8	1110.0	1106.1	1104.8	1102.7	1102.4
32.5°	1158.5	1153.2	1148.3	1143.6	1138.3	1136.3	1132.8	1131.0
35°	1202.6	1195.5	1189.8	1186.5	1181.2	1178.6	1176.3	1179.0
37.5°	1264.3	1255.7	1252.8	1249.0	1245.6	1241.5	1242.3	1241.5
40°	1349.6	1342.0	1339.1	1332.4	1331.5	1326.8	1329.7	1326.8
42.5°	1455.1	1441.1	1439.1	1433.8	1432.0	1429.4	1430.5	1428.5
45°	1570.0	1557.4	1555.1	1546.6	1546.8	1540.8	1543.1	1543.1
47.5°	1699.2	1686.0	1675.2	1669.0	1666.7	1662.9	1664.9	1664.6
50°	1832.4	1814.6	1802.6	1790.6	1785.3	1786.8	1782.7	1789.8
52.5°	1975.5	1949.0	1932.1	1920.7	1910.7	1912.8	1913.3	1915.4
55°	2123.7	2089.9	2065.3	2050.4	2041.4	2041.9	2044.6	2046.9
57.5°	2272.8	2230.4	2197.1	2174.9	2169.1	2171.7	2171.7	2171.4
60°	2427.5	2376.6	2333.6	2308.5	2303.2	2301.8	2313.1	2309.3
62.5°	2593.4	2532.3	2487.9	2455.7	2448.2	2453.4	2463.6	2461.3
65°	2813.5	2728.9	2671.7	2639.8	2627.0	2632.3	2646.0	2645.4
67.5°	3097.2	2979.2	2903.5	2862.5	2853.2	2859.6	2867.3	2874.5
70°	3521.6	3353.0	3244.9	3156.3	3118.3	3111.0	3118.5	3118.9
71°	3670.9	3477.1	3305.0	3196.9	3134.6	3108.4	3110.4	3097.2
72.5°	3664.8	3426.1	3224.7	3111.6	3025.0	3004.0	2993.8	2978.0
75°	3417.9	3202.7	3027.9	2904.7	2821.3	2796.5	2778.4	2777.5
77.5°	3099.6	2940.9	2748.3	2617.7	2516.3	2475.0	2456.7	2456.0
80°	2491.6	2254.1	2113.2	2034.6	1912.2	1876.8	1839.5	1825.4
82.5°	1506.8	1177.5	957.4	850.8	791.7	652.0	585.1	553.5
85°	351.0	249.3	171.9	112.8	81.3	64.6	49.7	43.8
87.5°	23.6	18.7	16.7	13.4	10.2	10.0	6.1	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)