

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: P140651

Luminaire Tested: **EMM-E04-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140651
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E04-LED-E1-5XQ-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12237.4 lumens
Efficiency: N/A
Efficacy: 125.9 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

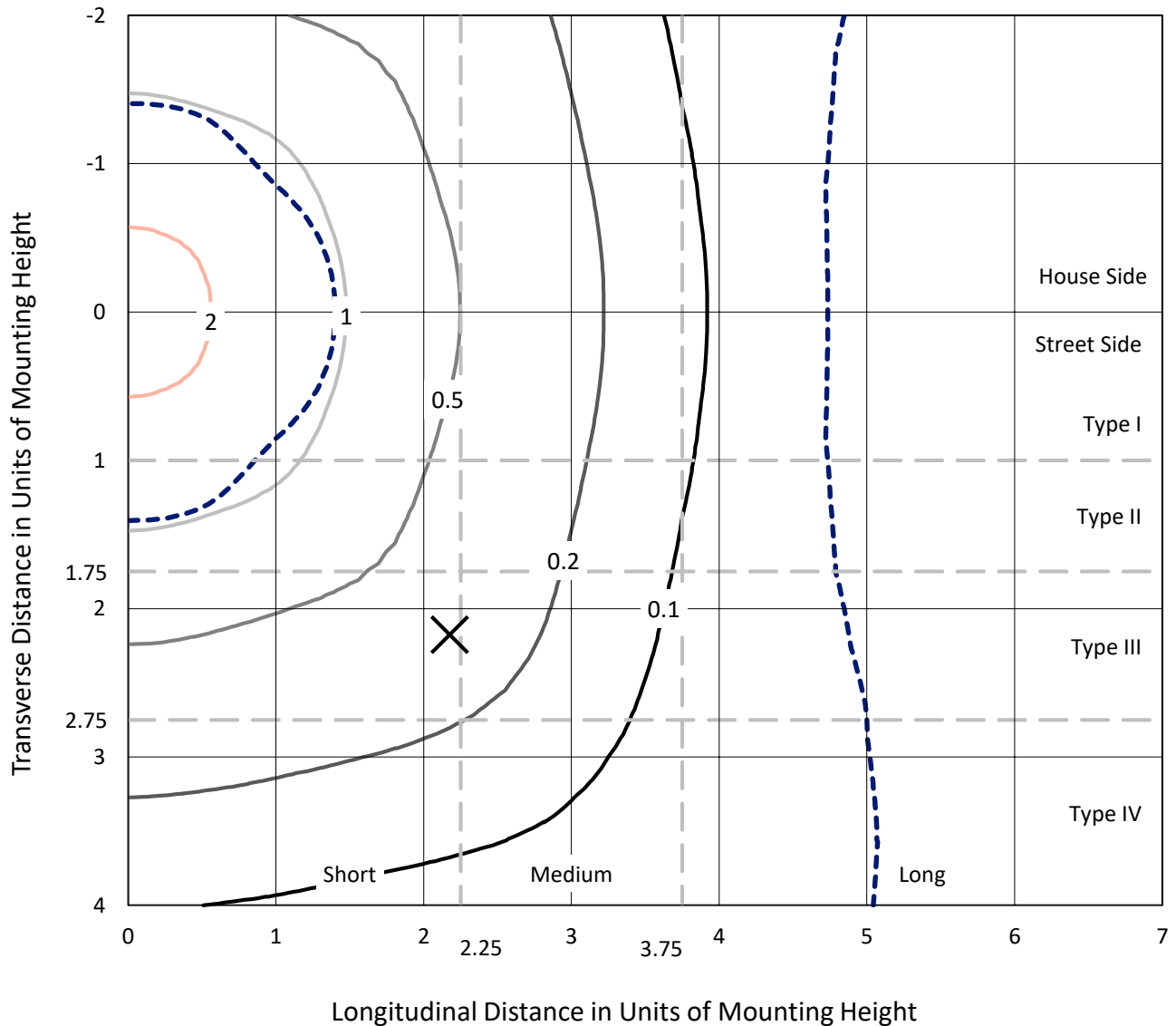
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

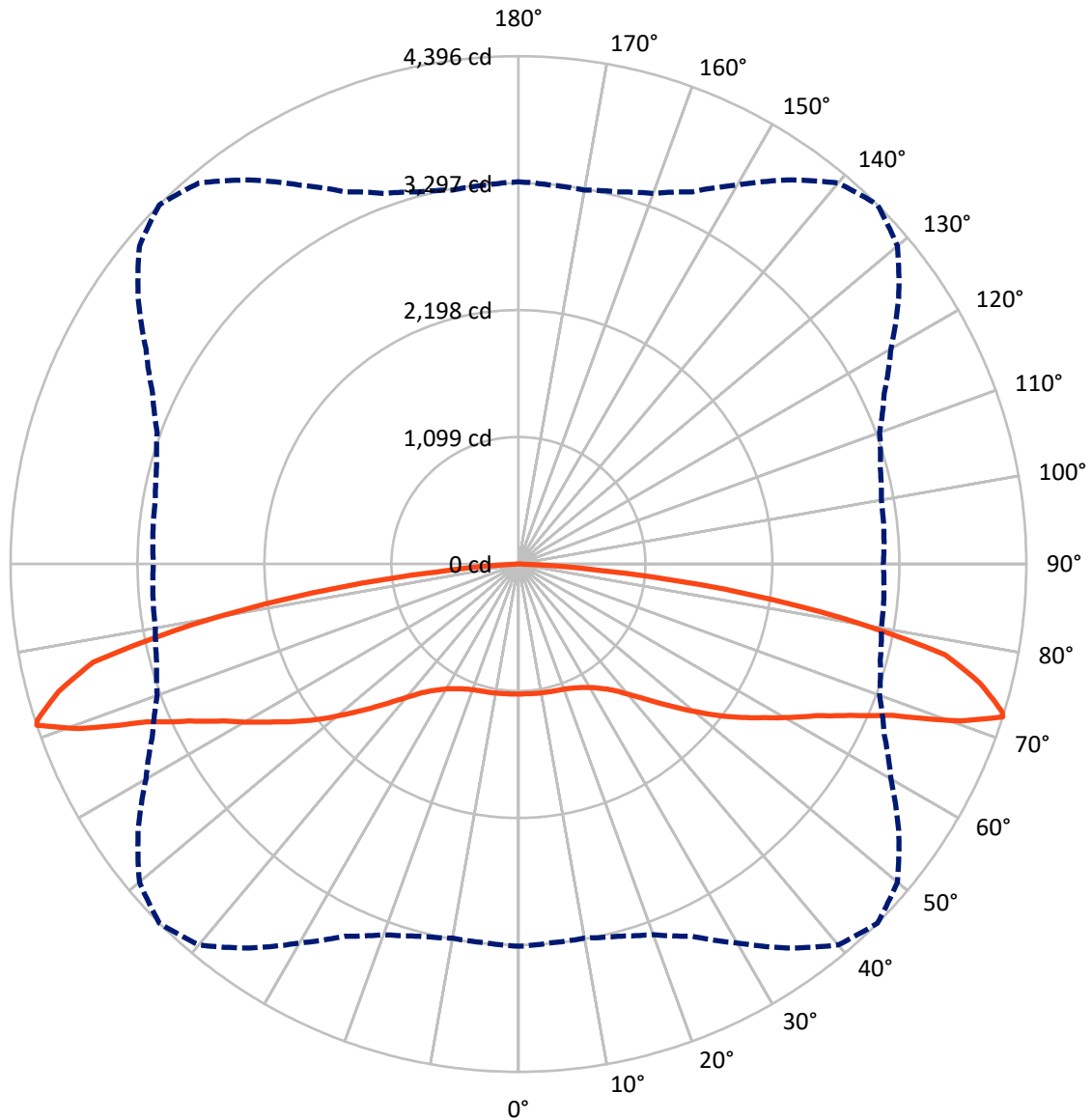
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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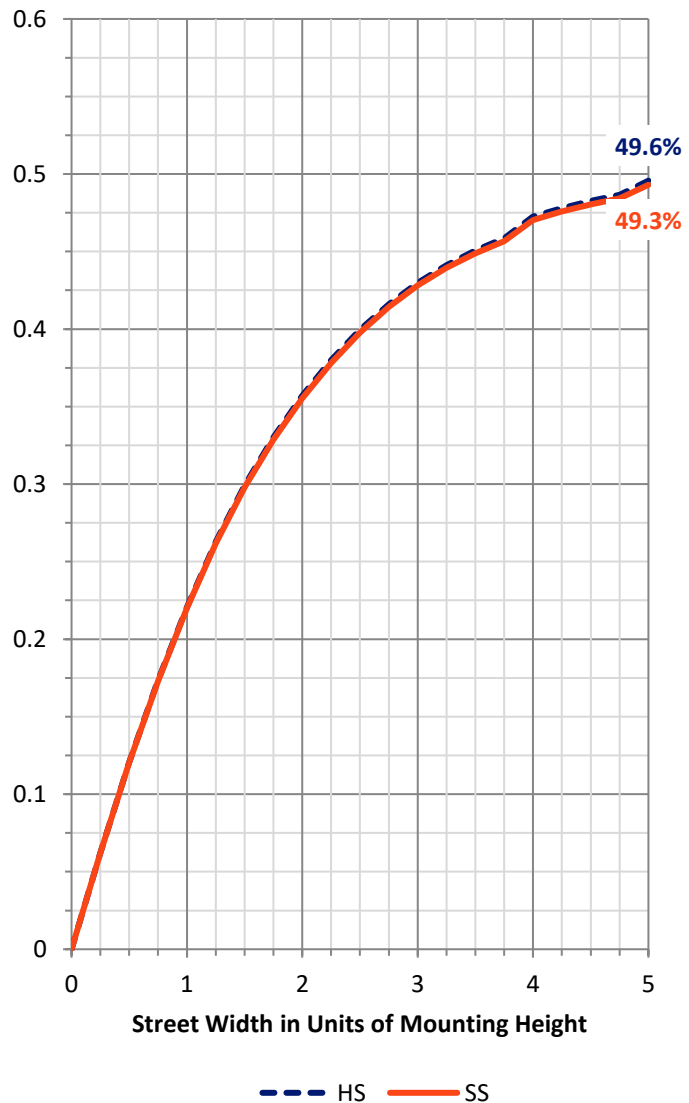
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6118.7	0.0	6118.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6118.7	0.0	6118.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12237.4	0.0	12237.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	0.9
10°-20°	324.6	2.7
20°-30°	549.3	4.5
30°-40°	835.7	6.8
40°-50°	1323.2	10.8
50°-60°	2027.7	16.6
60°-70°	2976.8	24.3
70°-80°	3376.9	27.6
80°-90°	715.3	5.8
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°	12237.4	100.0
0°-180°	12237.4	100.0



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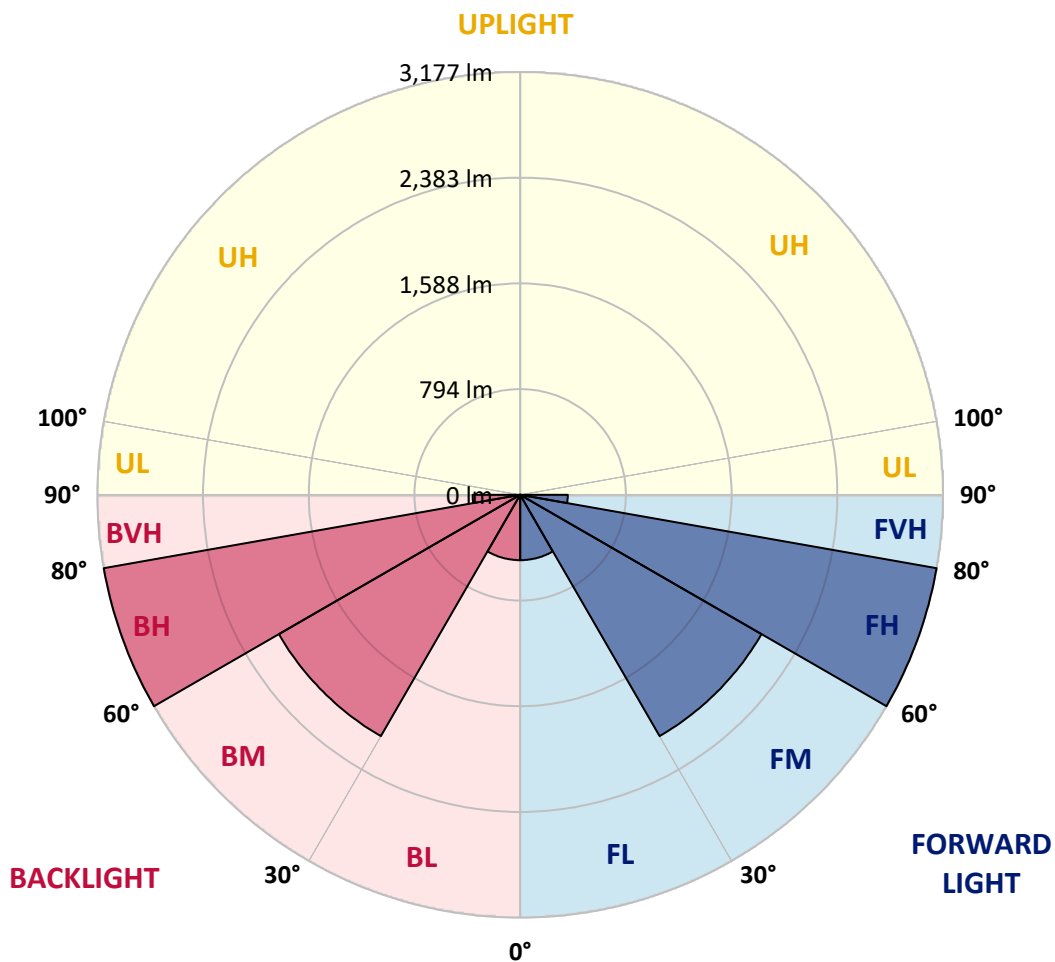
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.9	4.0			
FM	(30°-60°)	2093.3	17.1			
FH	(60°-80°)	3176.9	26.0			G2/5000
FVH	(80°-90°)	357.7	2.9			G3/500
BL	(0°-30°)	490.9	4.0	B1/500		
BM	(30°-60°)	2093.3	17.1	B2/2500		
BH	(60°-80°)	3176.9	26.0	B4/5000		G2/5000
BVH	(80°-90°)	357.7	2.9			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°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1128.7	1130.1	1128.7	1127.3	1127.3	1126.0	1126.0	1126.0	1127.3	1124.6	1124.6
5°	1131.5	1132.8	1131.5	1128.7	1128.7	1128.7	1127.3	1127.3	1128.7	1127.3	1127.3
7.5°	1135.6	1136.9	1135.6	1132.8	1132.8	1131.5	1130.1	1130.1	1132.8	1130.1	1130.1
10°	1139.7	1142.4	1139.7	1136.9	1136.9	1135.6	1134.2	1134.2	1135.6	1132.8	1132.8
12.5°	1146.5	1146.5	1145.1	1143.8	1143.8	1142.4	1141.0	1139.7	1138.3	1136.9	1135.6
15°	1152.0	1153.3	1150.6	1149.2	1147.9	1146.5	1145.1	1145.1	1142.4	1141.0	1141.0
17.5°	1158.8	1160.2	1157.4	1154.7	1154.7	1152.0	1150.6	1150.6	1147.9	1146.5	1145.1
20°	1165.7	1167.0	1164.3	1162.9	1161.6	1160.2	1157.4	1158.8	1157.4	1154.7	1154.7
22.5°	1173.9	1173.9	1172.5	1171.1	1171.1	1169.8	1168.4	1171.1	1168.4	1168.4	1167.0
25°	1182.1	1183.4	1182.1	1182.1	1183.4	1183.4	1184.8	1187.5	1187.5	1186.2	1184.8
27.5°	1199.9	1199.9	1199.9	1199.9	1204.0	1204.0	1205.3	1209.4	1210.8	1210.8	1210.8
30°	1223.1	1224.5	1223.1	1223.1	1227.2	1228.6	1232.7	1236.8	1239.5	1239.5	1240.9
32.5°	1257.3	1256.0	1257.3	1260.1	1262.8	1265.5	1269.6	1276.5	1280.6	1281.9	1281.9
35°	1301.1	1302.5	1301.1	1302.5	1307.9	1312.0	1316.2	1324.4	1327.1	1329.8	1331.2
37.5°	1365.4	1369.5	1366.8	1366.8	1373.6	1376.3	1381.8	1388.7	1394.1	1396.9	1395.5
40°	1458.4	1457.1	1454.3	1455.7	1457.1	1459.8	1465.3	1479.0	1485.8	1485.8	1485.8
42.5°	1565.2	1566.5	1562.4	1561.0	1562.4	1565.2	1573.4	1584.3	1595.3	1592.5	1593.9
45°	1686.9	1677.3	1680.1	1677.3	1678.7	1688.3	1702.0	1707.4	1718.4	1718.4	1721.1
47.5°	1805.9	1801.8	1800.5	1799.1	1803.2	1812.8	1829.2	1847.0	1856.6	1862.0	1866.1
50°	1940.0	1933.2	1931.8	1933.2	1934.6	1937.3	1968.8	1986.5	2009.8	2013.9	2012.5
52.5°	2070.0	2064.5	2061.8	2061.8	2067.3	2076.8	2109.7	2138.4	2164.4	2180.8	2174.0
55°	2210.9	2210.9	2202.7	2200.0	2208.2	2217.8	2262.9	2295.7	2332.7	2345.0	2325.8
57.5°	2355.9	2354.6	2342.3	2338.2	2345.0	2369.6	2407.9	2458.5	2498.2	2509.2	2498.2
60°	2498.2	2498.2	2491.4	2488.6	2495.5	2525.6	2572.1	2628.2	2676.1	2696.6	2678.8
62.5°	2661.0	2661.0	2643.2	2651.5	2661.0	2684.3	2743.1	2815.6	2879.9	2890.9	2874.5
65°	2845.7	2853.9	2840.3	2837.5	2849.8	2893.6	2960.7	3052.3	3127.6	3156.3	3131.7
67.5°	3127.6	3115.3	3098.8	3092.0	3111.2	3152.2	3234.3	3354.7	3465.5	3492.9	3464.1
70°	3420.4	3408.0	3402.6	3424.5	3465.5	3551.7	3677.6	3845.8	4000.4	4066.1	4005.9
72°	3308.2	3291.7	3287.6	3334.2	3413.5	3554.4	3787.0	4057.9	4304.2	4395.8	4282.3
72.5°	3250.7	3237.0	3235.7	3279.4	3365.6	3507.9	3736.4	4015.5	4279.5	4379.4	4257.7
75°	3018.1	3004.4	3018.1	3067.4	3153.6	3306.8	3539.4	3800.7	4038.8	4130.4	4011.4
77.5°	2696.6	2672.0	2684.3	2752.7	2848.5	3015.4	3261.6	3570.8	3800.7	3776.1	3599.6
80°	2152.1	2097.4	2156.2	2176.7	2286.2	2398.4	2636.4	2774.6	2853.9	2858.0	2732.2
82.5°	939.9	961.8	1035.7	1097.2	1175.2	1305.2	1401.0	1550.1	1723.9	1804.6	1707.4
85°	61.6	76.6	121.8	145.0	201.1	244.9	351.6	511.7	617.0	706.0	595.1
87.5°	10.9	15.0	27.4	32.8	35.6	39.7	39.7	54.7	57.5	46.5	52.0
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°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1124.6	1124.6	1126.0	1124.6	1124.6	1124.6	1123.2	1123.2
5°	1126.0	1126.0	1127.3	1127.3	1126.0	1126.0	1126.0	1126.0
7.5°	1130.1	1128.7	1130.1	1130.1	1128.7	1128.7	1127.3	1128.7
10°	1131.5	1131.5	1132.8	1132.8	1131.5	1131.5	1131.5	1131.5
12.5°	1135.6	1135.6	1135.6	1136.9	1135.6	1135.6	1136.9	1135.6
15°	1139.7	1138.3	1138.3	1138.3	1138.3	1139.7	1139.7	1141.0
17.5°	1143.8	1143.8	1142.4	1143.8	1143.8	1145.1	1145.1	1145.1
20°	1152.0	1150.6	1147.9	1150.6	1150.6	1150.6	1150.6	1152.0
22.5°	1164.3	1161.6	1158.8	1158.8	1157.4	1158.8	1157.4	1157.4
25°	1182.1	1178.0	1173.9	1172.5	1171.1	1169.8	1168.4	1169.8
27.5°	1208.1	1202.6	1197.1	1194.4	1193.0	1190.3	1188.9	1188.9
30°	1236.8	1232.7	1224.5	1221.7	1217.6	1213.5	1213.5	1212.2
32.5°	1280.6	1275.1	1265.5	1261.4	1254.6	1250.5	1249.1	1249.1
35°	1325.7	1318.9	1314.8	1309.3	1301.1	1297.0	1295.6	1295.6
37.5°	1394.1	1385.9	1380.5	1373.6	1372.2	1366.8	1366.8	1366.8
40°	1483.1	1476.2	1469.4	1463.9	1459.8	1455.7	1450.2	1450.2
42.5°	1592.5	1581.6	1577.5	1570.6	1565.2	1561.0	1558.3	1558.3
45°	1712.9	1703.3	1697.9	1688.3	1686.9	1684.2	1678.7	1678.7
47.5°	1848.4	1834.7	1823.7	1821.0	1814.2	1807.3	1804.6	1805.9
50°	1996.1	1972.9	1957.8	1957.8	1949.6	1940.0	1941.4	1940.0
52.5°	2148.0	2122.0	2102.8	2089.2	2079.6	2078.2	2079.6	2078.2
55°	2301.2	2273.8	2250.6	2235.5	2226.0	2216.4	2215.0	2215.0
57.5°	2459.9	2425.7	2388.8	2375.1	2365.5	2360.0	2360.0	2361.4
60°	2639.1	2583.0	2536.5	2518.7	2511.9	2514.6	2513.3	2514.6
62.5°	2821.1	2756.8	2702.1	2681.6	2672.0	2670.6	2681.6	2685.7
65°	3051.0	2971.6	2910.0	2871.7	2871.7	2867.6	2879.9	2874.5
67.5°	3350.6	3238.4	3163.1	3101.6	3102.9	3107.0	3124.8	3123.5
70°	3860.9	3662.5	3523.0	3417.6	3376.6	3349.2	3343.7	3343.7
72°	4018.2	3722.7	3492.9	3327.3	3242.5	3190.5	3175.5	3159.0
72.5°	3977.2	3673.5	3440.9	3268.5	3180.9	3128.9	3105.7	3085.2
75°	3718.6	3379.3	3126.2	2945.6	2848.5	2785.5	2773.2	2763.6
77.5°	3280.8	2979.8	2718.5	2531.1	2433.9	2353.2	2320.4	2317.6
80°	2529.7	2258.8	2057.7	1911.3	1823.7	1763.5	1766.3	1747.1
82.5°	1492.6	1264.2	1091.8	896.1	767.5	693.6	647.1	641.7
85°	439.2	298.3	190.2	136.8	98.5	73.9	54.7	49.3
87.5°	39.7	31.5	26.0	21.9	20.5	17.8	10.9	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)