

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: P180197

Luminaire Tested: **ICM-E05-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180197
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-E05-LED-E1-5XQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13510.8 lumens
Efficiency: N/A
Efficacy: 106.1 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

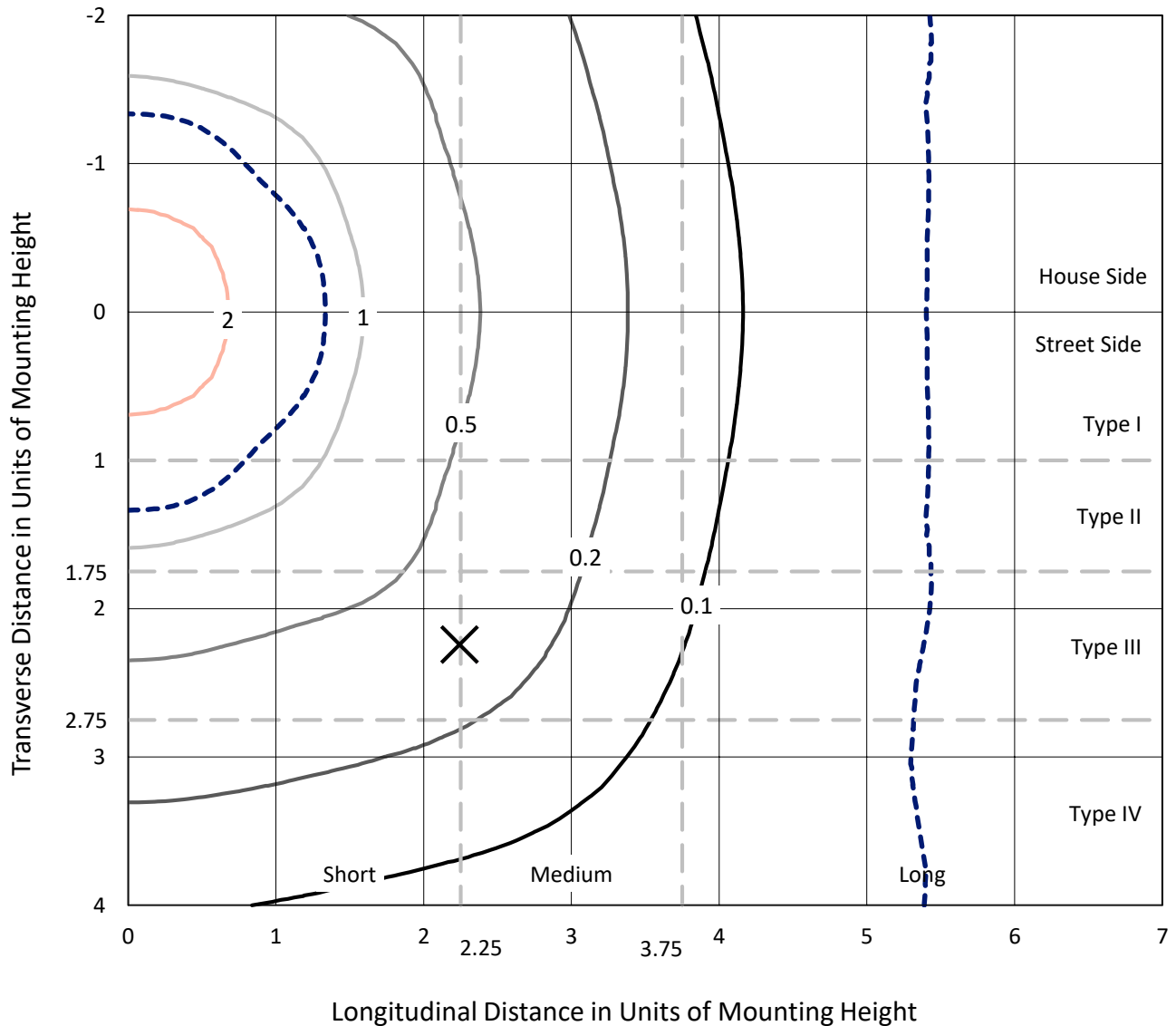
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

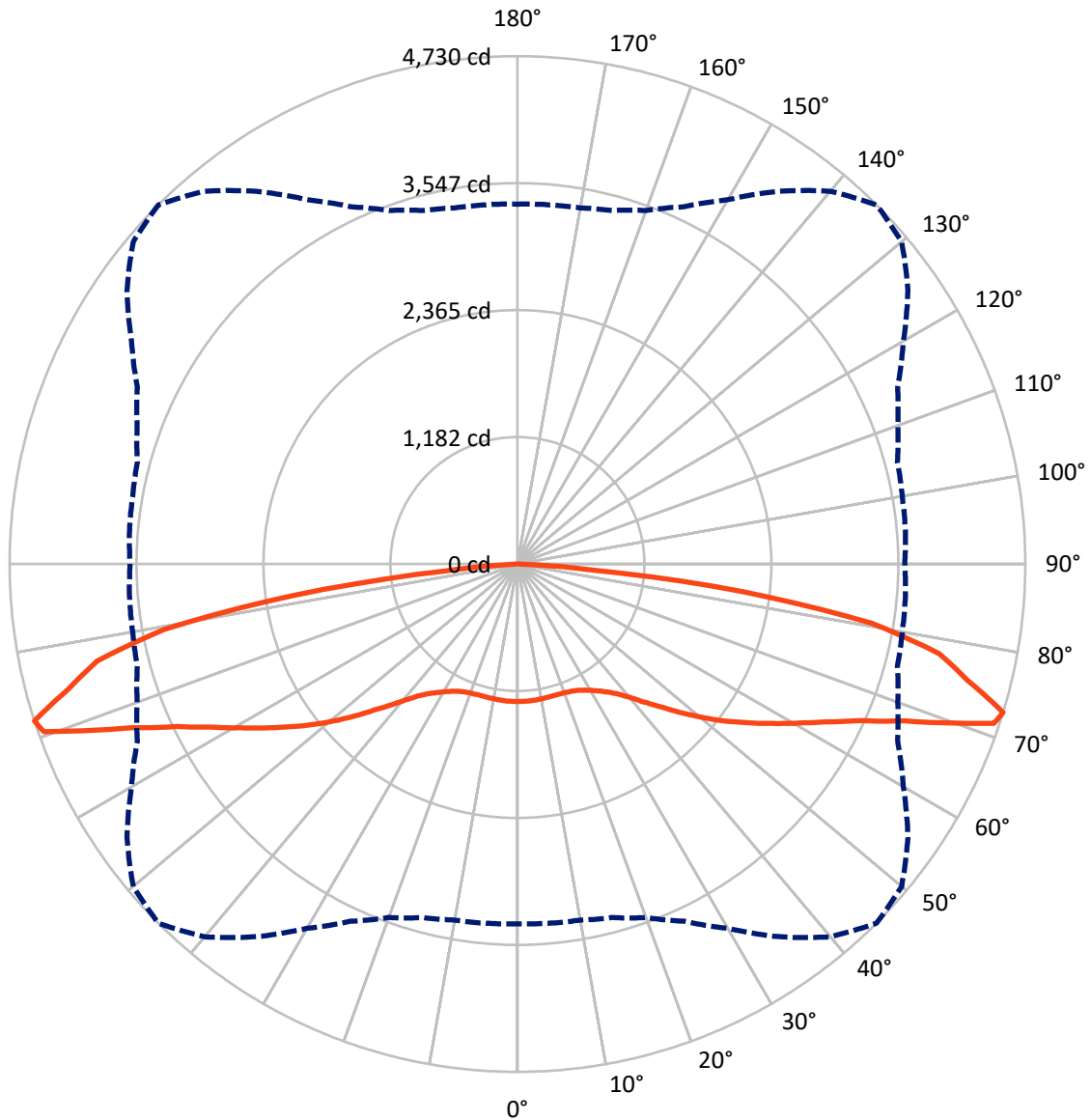
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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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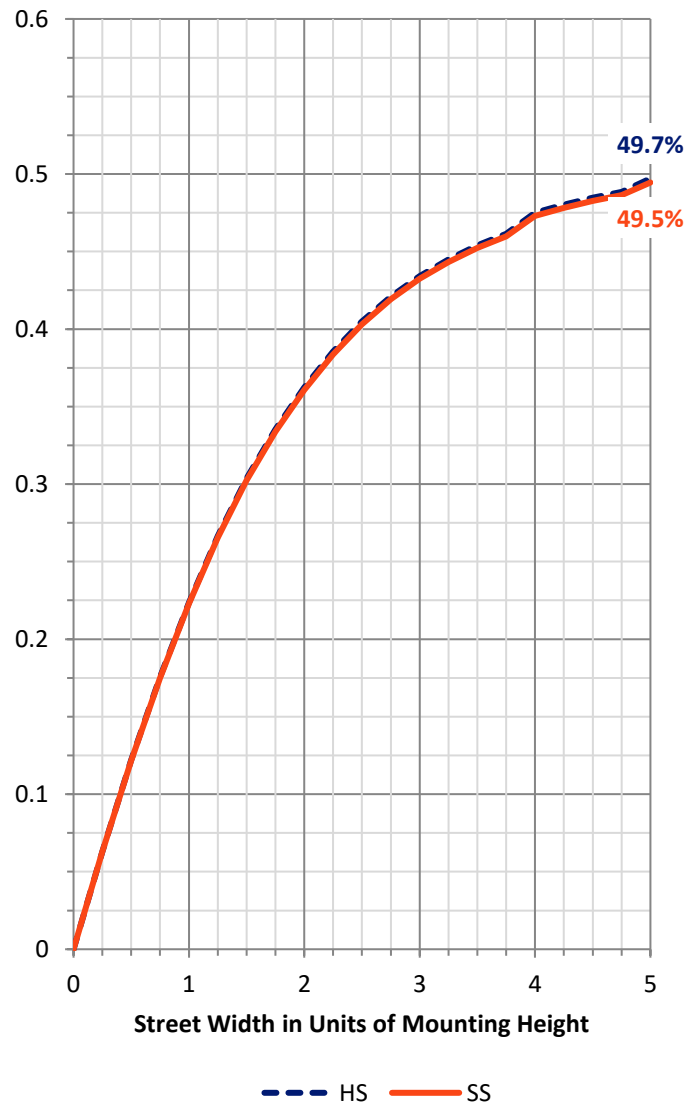
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6755.4	0.0	6755.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6755.4	0.0	6755.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13510.8	0.0	13510.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	0.9
10°-20°	360.9	2.7
20°-30°	604.3	4.5
30°-40°	921.3	6.8
40°-50°	1471.1	10.9
50°-60°	2261.9	16.7
60°-70°	3293.4	24.4
70°-80°	3710.0	27.5
80°-90°	765.9	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°	13510.8	100.0
0°-180°	13510.8	100.0



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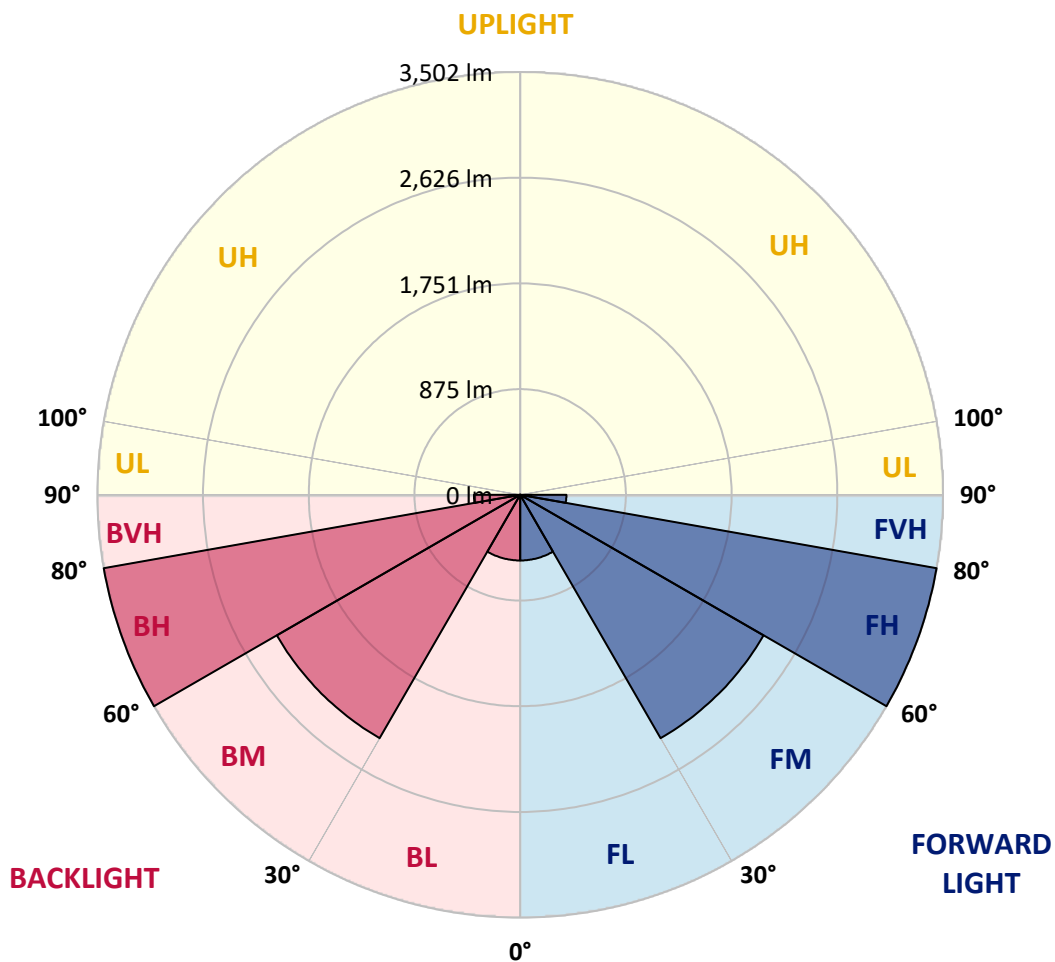
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.6	4.0			
FM	(30°-60°)	2327.2	17.2			
FH	(60°-80°)	3501.7	25.9			G2/5000
FVH	(80°-90°)	382.9	2.8			G3/500
BL	(0°-30°)	543.6	4.0	B2/1000		
BM	(30°-60°)	2327.2	17.2	B2/2500		
BH	(60°-80°)	3501.7	25.9	B4/5000		G2/5000
BVH	(80°-90°)	382.9	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°	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1
2.5°	1282.2	1283.0	1282.6	1281.9	1282.2	1281.9	1281.1	1280.8	1278.3	1279.7	1281.9
5°	1282.2	1281.5	1281.1	1280.8	1280.8	1281.9	1280.8	1279.8	1279.4	1280.1	1279.1
7.5°	1281.5	1280.1	1279.4	1279.1	1279.4	1279.8	1278.7	1277.2	1278.3	1277.2	1275.9
10°	1279.4	1278.3	1278.7	1277.2	1277.6	1277.2	1275.8	1274.8	1275.4	1274.4	1272.8
12.5°	1280.1	1278.3	1278.0	1277.2	1276.9	1276.6	1274.8	1273.0	1273.4	1272.7	1270.9
15°	1280.1	1279.1	1278.7	1277.2	1276.8	1276.2	1274.1	1273.4	1273.4	1272.4	1270.1
17.5°	1280.8	1280.1	1280.1	1278.3	1277.6	1277.3	1274.8	1273.8	1274.8	1272.7	1271.3
20°	1283.0	1282.2	1282.6	1281.5	1280.1	1280.1	1278.3	1277.6	1278.0	1277.6	1273.8
22.5°	1287.2	1287.2	1287.9	1287.5	1287.2	1287.5	1286.1	1286.1	1286.5	1286.4	1283.3
25°	1299.2	1298.9	1299.6	1299.5	1299.9	1302.4	1301.3	1301.0	1302.8	1302.8	1299.5
27.5°	1321.9	1321.1	1322.0	1322.6	1324.4	1327.5	1326.8	1327.9	1330.7	1330.1	1327.2
30°	1348.1	1347.4	1349.1	1351.3	1352.7	1357.6	1355.5	1360.8	1363.4	1365.4	1363.4
32.5°	1386.3	1386.3	1389.5	1390.9	1394.1	1399.1	1399.8	1404.0	1407.3	1410.7	1408.3
35°	1437.3	1436.7	1439.1	1441.6	1445.5	1450.1	1451.8	1457.5	1462.4	1464.9	1460.3
37.5°	1515.2	1511.3	1515.9	1517.3	1520.5	1521.5	1526.5	1533.6	1538.9	1538.2	1535.1
40°	1620.7	1620.0	1618.2	1616.0	1621.0	1622.8	1622.8	1632.4	1640.8	1639.5	1639.1
42.5°	1743.8	1740.7	1738.6	1738.5	1741.4	1742.2	1753.1	1760.2	1766.2	1767.5	1766.2
45°	1876.3	1873.1	1873.8	1872.4	1873.4	1878.1	1884.4	1897.5	1908.8	1909.2	1903.2
47.5°	2018.6	2008.7	2016.5	2005.5	2012.2	2015.7	2031.6	2050.8	2070.6	2074.2	2068.8
50°	2163.0	2162.0	2161.3	2159.1	2162.3	2170.1	2189.6	2219.6	2238.8	2251.5	2243.0
52.5°	2320.9	2315.6	2313.1	2309.6	2312.8	2328.0	2355.3	2381.4	2415.8	2430.3	2418.6
55°	2474.5	2472.8	2463.5	2463.3	2470.0	2493.7	2523.4	2555.6	2592.8	2609.0	2604.9
57.5°	2632.4	2622.2	2619.4	2615.1	2628.6	2650.8	2687.3	2745.4	2783.9	2802.4	2791.7
60°	2786.8	2779.0	2773.0	2771.6	2780.8	2811.9	2864.4	2934.1	2981.9	3006.0	2988.9
62.5°	2952.5	2947.6	2940.5	2932.3	2951.8	2991.7	3056.9	3134.1	3204.5	3234.3	3208.4
65°	3158.5	3148.2	3140.5	3130.2	3146.1	3196.4	3278.2	3386.8	3481.4	3516.0	3497.7
67.5°	3375.8	3366.3	3367.1	3360.7	3389.0	3458.7	3564.2	3711.8	3838.5	3897.7	3863.0
70°	3565.6	3570.9	3572.3	3598.2	3647.1	3753.2	3928.9	4160.0	4352.3	4442.4	4405.3
71°	3509.7	3521.3	3539.5	3566.3	3650.6	3776.2	4015.9	4296.0	4525.4	4678.4	4627.0
72.5°	3351.1	3358.2	3367.4	3408.4	3503.6	3670.1	3916.9	4236.9	4531.7	4729.6	4670.2
75°	3121.7	3128.4	3131.6	3160.3	3247.0	3392.2	3618.1	3902.0	4162.2	4330.6	4314.1
77.5°	2775.5	2776.5	2801.3	2845.6	2942.9	3108.9	3346.8	3641.3	3886.0	4017.0	3933.8
80°	1993.1	1979.6	2005.1	2062.2	2182.5	2372.9	2616.6	2952.9	3224.4	3346.8	3218.0
82.5°	758.2	799.4	864.2	958.3	999.1	1210.7	1438.0	1635.5	1864.2	2119.8	2055.7
85°	81.5	91.7	115.1	142.7	180.2	249.2	344.5	470.1	579.4	681.1	604.7
87.5°	30.5	31.2	34.7	40.0	40.7	42.5	45.3	52.7	49.2	42.4	34.3
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°	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1	1280.1
2.5°	1280.1	1280.5	1280.1	1280.5	1280.5	1279.1	1279.4	1278.7
5°	1279.8	1278.7	1279.1	1279.4	1279.1	1279.7	1278.7	1279.4
7.5°	1278.0	1275.9	1276.6	1276.6	1275.9	1276.9	1276.3	1275.9
10°	1274.4	1271.6	1273.0	1272.3	1272.0	1272.4	1272.3	1272.4
12.5°	1271.3	1269.5	1269.9	1269.5	1269.1	1270.1	1269.9	1270.1
15°	1270.5	1267.7	1267.4	1266.6	1267.0	1267.7	1267.7	1268.8
17.5°	1269.9	1266.2	1266.0	1265.2	1265.6	1267.0	1267.4	1266.6
20°	1272.0	1269.1	1268.5	1267.7	1267.4	1269.1	1268.8	1268.8
22.5°	1281.9	1278.3	1278.0	1275.2	1274.1	1275.2	1274.4	1274.4
25°	1297.8	1293.6	1292.2	1288.3	1285.4	1285.4	1284.4	1283.6
27.5°	1326.5	1320.1	1318.7	1315.5	1311.6	1312.4	1310.1	1309.9
30°	1359.7	1354.1	1349.1	1344.6	1339.9	1338.1	1335.6	1335.4
32.5°	1403.4	1396.9	1390.9	1385.2	1378.9	1376.4	1372.2	1370.1
35°	1456.8	1448.3	1441.2	1437.3	1430.9	1427.7	1424.9	1428.1
37.5°	1531.5	1521.2	1517.7	1513.1	1508.8	1503.8	1504.9	1503.8
40°	1634.8	1625.6	1622.1	1614.0	1612.8	1607.3	1610.8	1607.3
42.5°	1762.6	1745.6	1743.2	1736.8	1734.7	1731.5	1732.8	1730.4
45°	1901.8	1886.5	1883.7	1873.5	1873.8	1866.3	1869.2	1869.2
47.5°	2058.2	2042.3	2029.2	2021.8	2018.9	2014.3	2016.8	2016.5
50°	2219.6	2198.1	2183.5	2169.0	2162.6	2164.5	2159.5	2168.0
52.5°	2393.1	2360.9	2340.4	2326.6	2314.6	2317.0	2317.8	2320.2
55°	2572.7	2531.6	2501.8	2483.7	2472.8	2473.5	2476.7	2479.5
57.5°	2753.1	2701.9	2661.5	2634.5	2627.5	2630.7	2630.7	2630.3
60°	2940.5	2878.8	2826.8	2796.3	2790.0	2788.2	2802.1	2797.4
62.5°	3141.6	3067.6	3013.7	2974.8	2965.6	2971.9	2984.4	2981.5
65°	3408.1	3305.8	3236.4	3197.8	3182.3	3188.6	3205.2	3204.5
67.5°	3751.8	3608.9	3517.1	3467.6	3456.2	3464.0	3473.2	3482.1
70°	4265.9	4061.6	3930.6	3823.4	3777.3	3768.5	3777.7	3778.1
71°	4446.8	4212.1	4003.6	3872.6	3797.1	3765.3	3767.7	3751.8
72.5°	4439.4	4150.1	3906.2	3769.1	3664.4	3638.9	3626.5	3607.4
75°	4140.2	3879.7	3667.9	3518.5	3417.7	3387.6	3365.6	3364.5
77.5°	3754.6	3562.4	3329.1	3170.9	3048.0	2998.2	2975.8	2975.1
80°	3018.3	2730.5	2559.8	2464.7	2316.3	2273.5	2228.2	2211.2
82.5°	1825.3	1426.3	1159.7	1030.5	959.1	789.8	708.7	670.5
85°	425.2	302.0	208.2	136.7	98.4	78.2	60.2	53.1
87.5°	28.7	22.6	20.2	16.3	12.4	12.0	7.4	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)