

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: P180006

Luminaire Tested: **ICM-E06-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180006
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E06-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15186.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

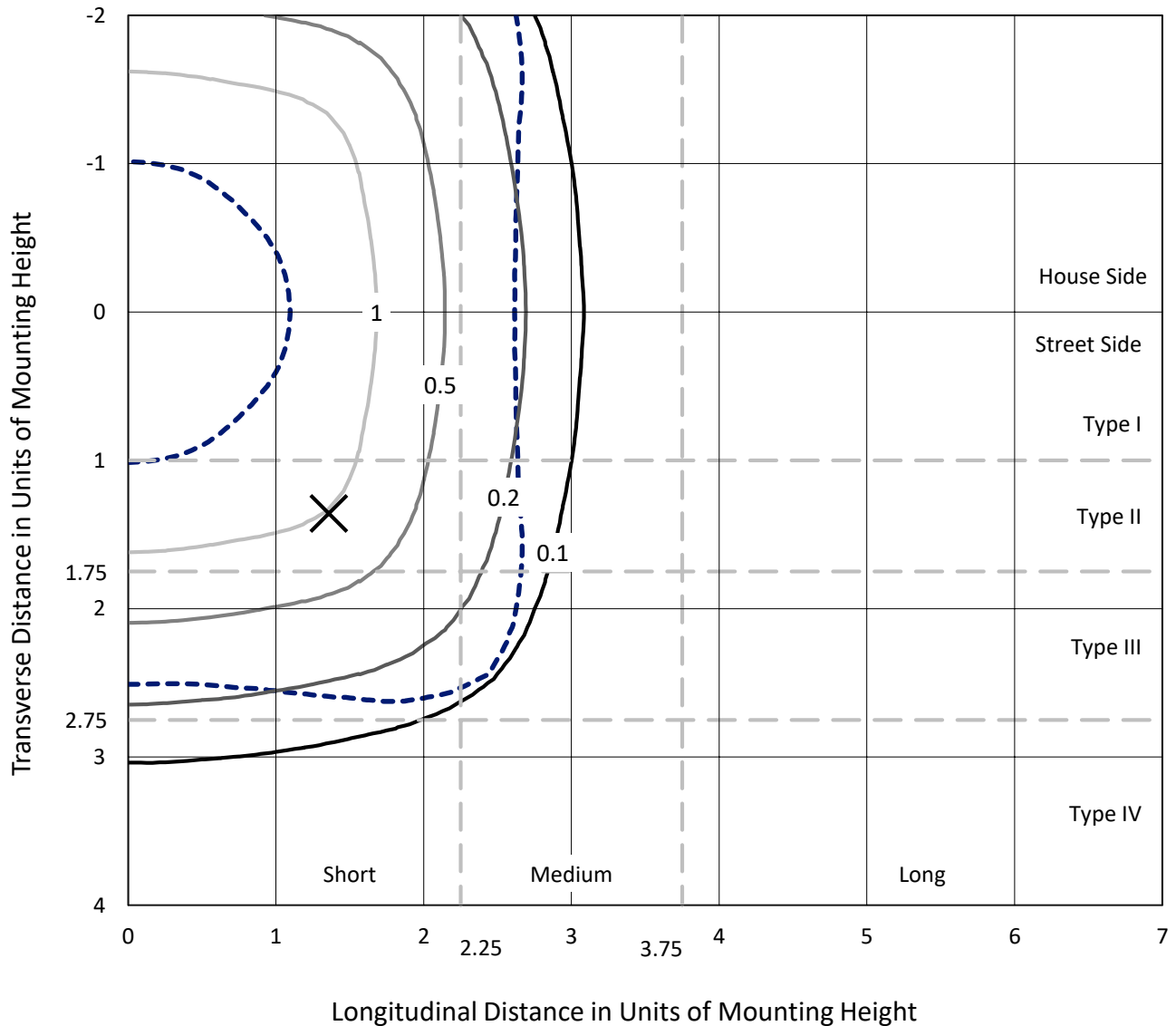
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

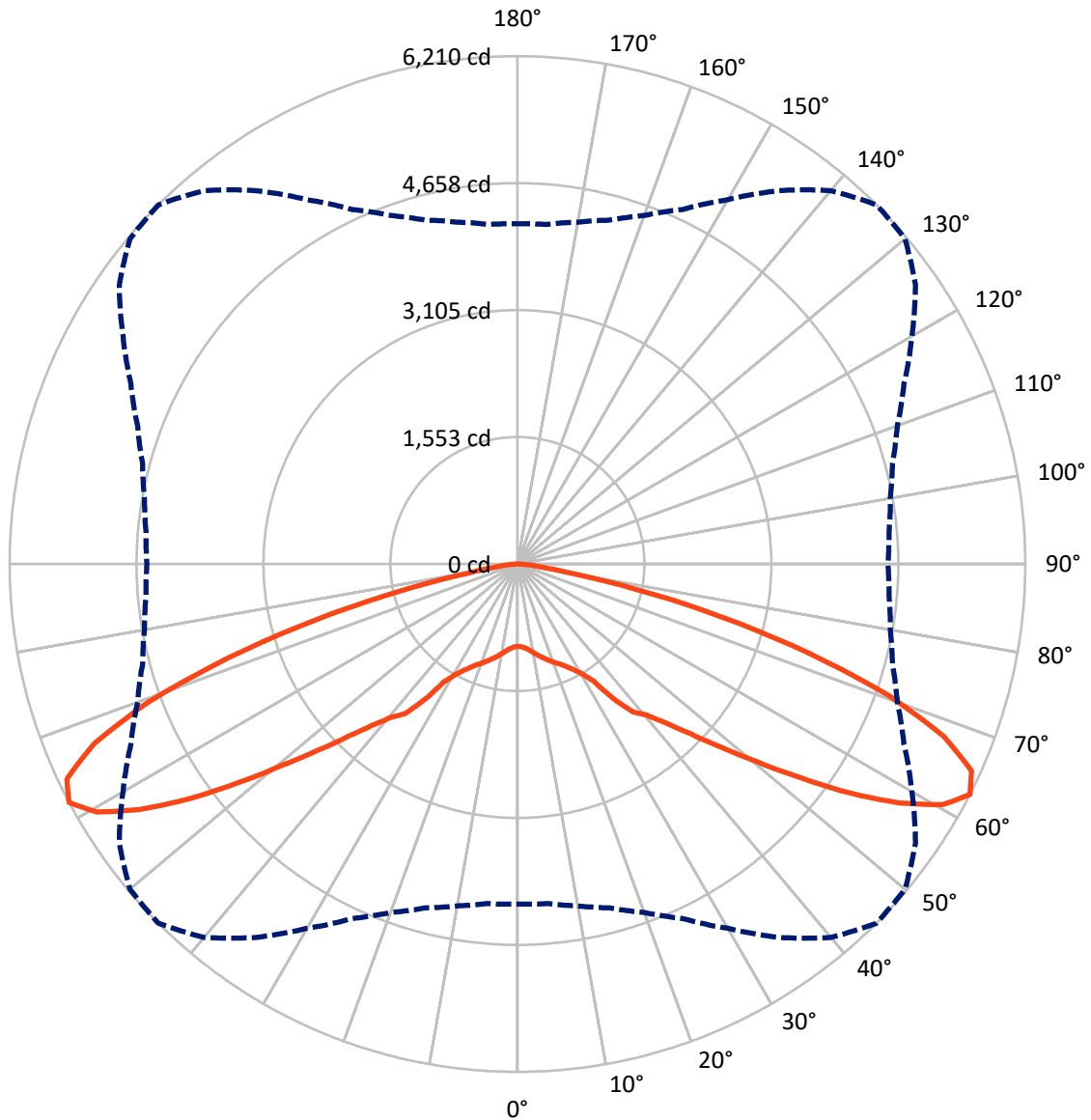
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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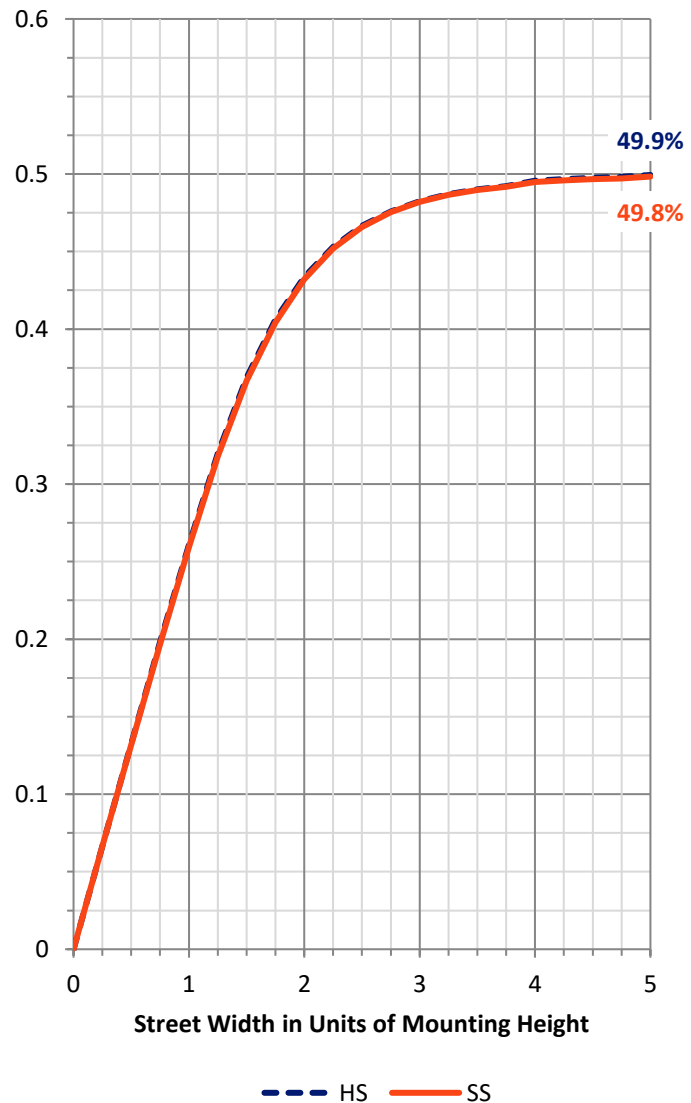
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7593.1	0.0	7593.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7593.1	0.0	7593.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15186.1	0.0	15186.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	0.7
10°-20°	341.5	2.2
20°-30°	660.3	4.3
30°-40°	1278.4	8.4
40°-50°	2308.3	15.2
50°-60°	4013.8	26.4
60°-70°	4556.7	30.0
70°-80°	1766.6	11.6
80°-90°	159.4	1.0
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°	15186.1	100.0
0°-180°	15186.1	100.0



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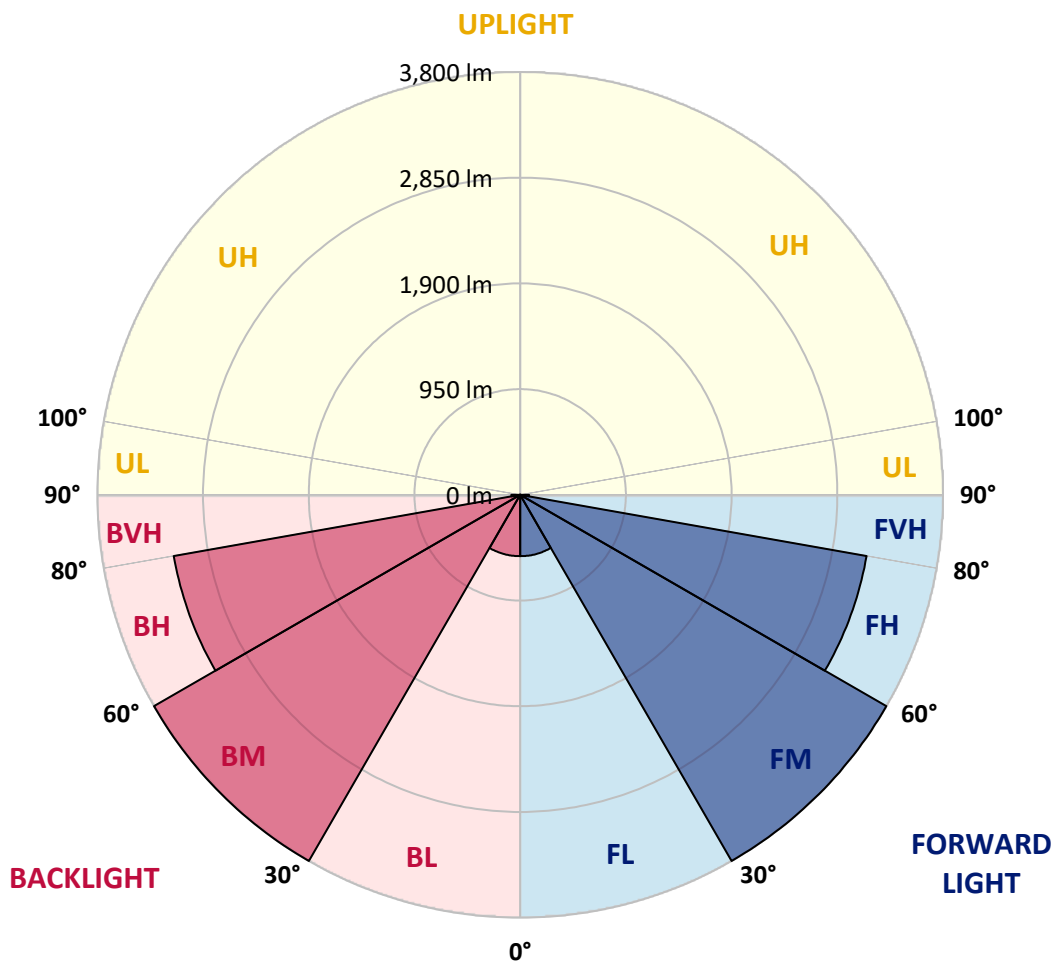
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.4	3.6			
FM	(30°-60°)	3800.3	25.0			
FH	(60°-80°)	3161.7	20.8			G2/5000
FVH	(80°-90°)	79.7	0.5			G1/100
BL	(0°-30°)	551.4	3.6	B2/1000		
BM	(30°-60°)	3800.3	25.0	B3/5000		
BH	(60°-80°)	3161.7	20.8	B4/5000		G2/5000
BVH	(80°-90°)	79.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1
2.5°	1014.3	1017.5	1016.8	1015.2	1015.2	1015.2	1014.3	1012.0	1011.3	1012.8	1014.3
5°	1038.0	1038.0	1038.0	1038.0	1036.3	1036.3	1034.8	1033.2	1034.0	1032.4	1031.6
7.5°	1074.1	1071.7	1071.6	1070.9	1070.9	1069.3	1067.0	1063.8	1064.6	1063.8	1063.1
10°	1116.5	1117.2	1114.8	1117.2	1113.3	1112.6	1109.4	1107.8	1107.0	1104.7	1104.7
12.5°	1167.4	1165.0	1165.1	1163.5	1162.0	1160.4	1155.7	1154.9	1151.8	1150.1	1147.8
15°	1215.4	1214.5	1211.4	1208.3	1207.4	1206.0	1200.4	1197.2	1196.5	1192.6	1189.4
17.5°	1263.3	1261.7	1257.8	1256.2	1253.0	1250.6	1246.0	1241.3	1238.9	1237.3	1233.4
20°	1314.2	1312.7	1308.8	1305.7	1301.8	1298.6	1291.5	1287.6	1285.2	1282.9	1279.7
22.5°	1377.9	1374.7	1368.5	1363.0	1354.2	1351.2	1341.8	1336.3	1332.3	1329.1	1327.6
25°	1447.0	1447.8	1439.2	1432.0	1421.8	1413.2	1401.4	1395.2	1391.3	1388.1	1387.4
27.5°	1533.3	1534.1	1526.2	1516.0	1500.3	1490.9	1475.2	1467.4	1465.0	1461.9	1461.0
30°	1670.0	1662.9	1649.5	1633.0	1618.9	1598.5	1575.7	1567.8	1560.0	1557.6	1557.6
32.5°	1921.1	1917.2	1906.2	1865.5	1846.5	1804.2	1764.1	1741.4	1715.5	1702.9	1695.1
35°	2097.0	2095.5	2086.9	2072.8	2060.8	2052.3	2028.7	2024.8	2020.1	2020.1	2026.4
37.5°	2226.6	2217.1	2215.6	2217.9	2214.8	2216.4	2235.2	2261.1	2283.2	2294.2	2292.5
40°	2418.2	2404.9	2412.7	2407.1	2400.0	2398.5	2404.8	2415.1	2425.2	2425.2	2422.9
42.5°	2668.7	2674.8	2678.1	2655.3	2640.4	2636.4	2651.4	2648.2	2658.4	2654.4	2644.3
45°	3040.8	3036.9	3031.3	3003.8	2980.3	2961.4	2965.4	2959.9	2960.6	2954.4	2946.5
47.5°	3416.0	3429.4	3406.6	3393.3	3366.5	3353.1	3364.2	3354.8	3372.9	3339.9	3324.1
50°	3780.3	3789.8	3782.0	3763.0	3763.0	3781.9	3795.2	3812.5	3837.6	3800.0	3743.5
52.5°	4078.6	4086.5	4098.3	4114.0	4152.4	4192.5	4249.0	4309.4	4357.4	4350.4	4286.0
55°	4260.9	4270.2	4289.9	4344.0	4413.1	4518.4	4646.4	4786.8	4896.8	4950.2	4903.0
57.5°	4322.1	4329.1	4382.5	4447.7	4555.2	4711.5	4925.8	5168.4	5379.6	5513.9	5492.6
60°	4307.9	4307.9	4362.1	4451.6	4602.4	4809.6	5112.6	5448.7	5772.1	5973.2	5943.3
62.5°	4159.6	4167.4	4245.0	4352.6	4534.8	4782.8	5144.0	5573.5	5960.6	6210.3	6185.9
65°	3834.4	3840.0	3924.0	4051.9	4255.3	4549.0	4943.8	5419.6	5863.2	6103.5	6057.9
67.5°	3309.2	3314.8	3383.1	3527.5	3742.6	4049.6	4475.9	4999.7	5433.8	5623.8	5487.1
70°	2632.5	2648.2	2692.1	2845.2	3008.5	3309.2	3701.8	4225.5	4635.3	4815.1	4664.4
72.5°	1794.0	1834.1	1887.5	2023.3	2179.5	2429.1	2741.6	3182.9	3511.8	3719.8	3585.6
75°	1010.4	1067.0	1083.4	1186.2	1315.1	1512.1	1740.7	2056.9	2389.1	2557.9	2396.2
77.5°	436.6	482.8	503.3	551.2	651.6	734.1	873.0	1086.6	1343.3	1462.0	1267.9
80°	215.1	226.1	234.7	249.7	278.0	304.7	370.6	464.0	569.2	595.9	474.2
82.5°	166.5	174.3	189.2	200.9	208.0	215.1	221.4	234.0	244.2	249.7	235.5
85°	117.0	127.3	143.6	157.0	164.8	170.3	175.8	179.7	170.4	155.4	163.3
87.5°	30.6	40.0	55.8	60.5	68.3	72.2	70.7	72.9	66.0	47.9	53.4
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°	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1
2.5°	1013.6	1012.8	1013.6	1013.6	1013.6	1012.8	1012.8	1012.8
5°	1031.6	1031.6	1032.4	1030.9	1030.9	1031.6	1030.9	1030.1
7.5°	1062.2	1061.5	1061.4	1060.7	1061.5	1060.7	1060.7	1059.9
10°	1103.1	1101.5	1102.2	1099.9	1099.9	1099.2	1099.2	1099.2
12.5°	1147.1	1144.8	1145.5	1143.1	1139.2	1140.0	1140.8	1140.0
15°	1189.4	1187.1	1184.8	1183.2	1180.8	1181.6	1181.6	1180.8
17.5°	1232.6	1227.9	1227.2	1224.8	1224.0	1224.0	1224.0	1224.8
20°	1277.4	1274.2	1273.4	1271.1	1270.3	1272.7	1273.5	1271.9
22.5°	1325.2	1323.7	1325.2	1323.7	1326.1	1327.6	1328.4	1326.8
25°	1385.7	1384.1	1386.5	1392.0	1395.2	1396.7	1400.6	1399.1
27.5°	1463.5	1462.0	1467.4	1475.2	1480.0	1487.8	1491.7	1493.3
30°	1563.9	1571.0	1574.1	1589.9	1592.9	1605.6	1605.6	1611.1
32.5°	1710.0	1723.4	1746.9	1771.2	1804.9	1829.3	1829.3	1841.9
35°	2030.3	2035.7	2053.9	2057.8	2064.8	2072.7	2064.8	2071.1
37.5°	2276.0	2251.7	2234.4	2210.1	2195.2	2195.2	2196.8	2195.2
40°	2401.7	2392.2	2384.4	2363.9	2360.8	2360.0	2360.0	2363.2
42.5°	2626.2	2603.5	2590.9	2573.6	2568.1	2566.5	2565.8	2567.4
45°	2918.3	2881.3	2847.6	2830.3	2815.5	2801.3	2806.0	2806.0
47.5°	3258.3	3200.9	3145.9	3116.1	3090.3	3078.4	3070.5	3068.2
50°	3672.0	3591.8	3521.2	3465.5	3427.7	3427.0	3430.9	3405.8
52.5°	4179.2	4052.8	3964.9	3889.5	3854.2	3850.3	3837.6	3823.5
55°	4741.2	4591.3	4446.2	4365.2	4318.9	4293.8	4278.9	4255.3
57.5°	5320.7	5118.9	4910.2	4780.5	4698.9	4642.4	4612.6	4599.2
60°	5767.5	5491.8	5216.3	5008.2	4872.4	4788.4	4736.6	4715.4
62.5°	5943.3	5569.6	5216.3	4943.1	4746.8	4630.5	4560.8	4530.1
65°	5733.7	5290.8	4889.0	4587.5	4368.4	4238.9	4162.6	4129.7
67.5°	5147.9	4757.1	4319.7	4019.7	3794.4	3666.4	3584.0	3559.7
70°	4315.7	3916.1	3498.4	3230.7	3029.8	2925.4	2839.7	2829.5
72.5°	3243.3	2898.6	2540.7	2319.2	2157.4	1984.8	1940.8	1962.8
75°	2078.9	1756.3	1437.6	1238.1	1090.5	925.6	862.1	877.8
77.5°	984.6	762.3	550.3	425.5	357.2	305.4	292.1	284.2
80°	365.0	296.0	261.4	248.1	238.7	230.0	223.7	216.7
82.5°	236.3	230.9	223.8	221.4	214.3	203.4	182.9	174.3
85°	176.6	176.6	167.3	168.0	162.5	148.4	129.5	119.3
87.5°	51.8	46.3	42.4	39.3	38.5	34.6	25.1	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)