

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: P180038

Luminaire Tested: **ICS-E03-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180038
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: ICS-E03-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8704.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

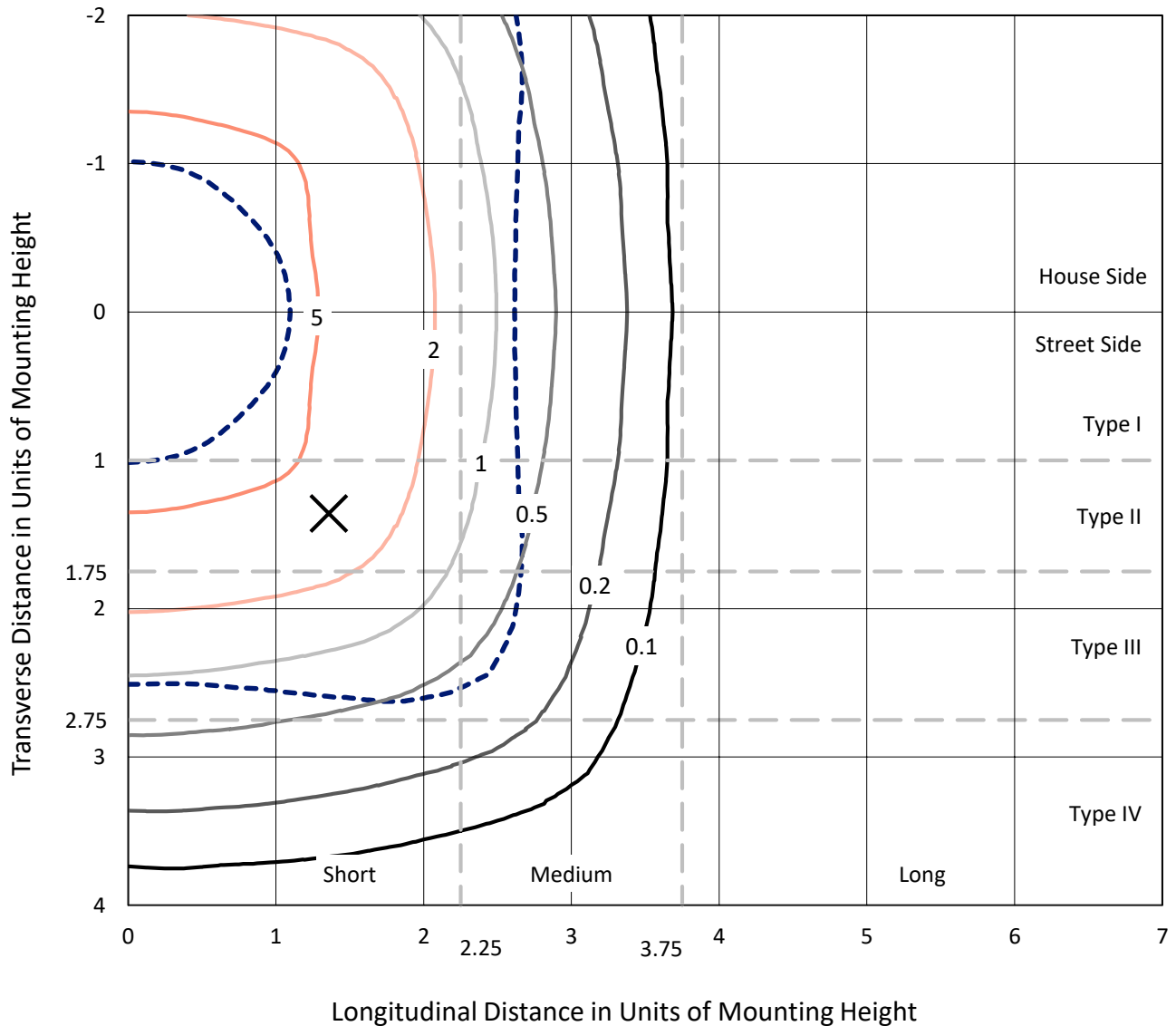
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

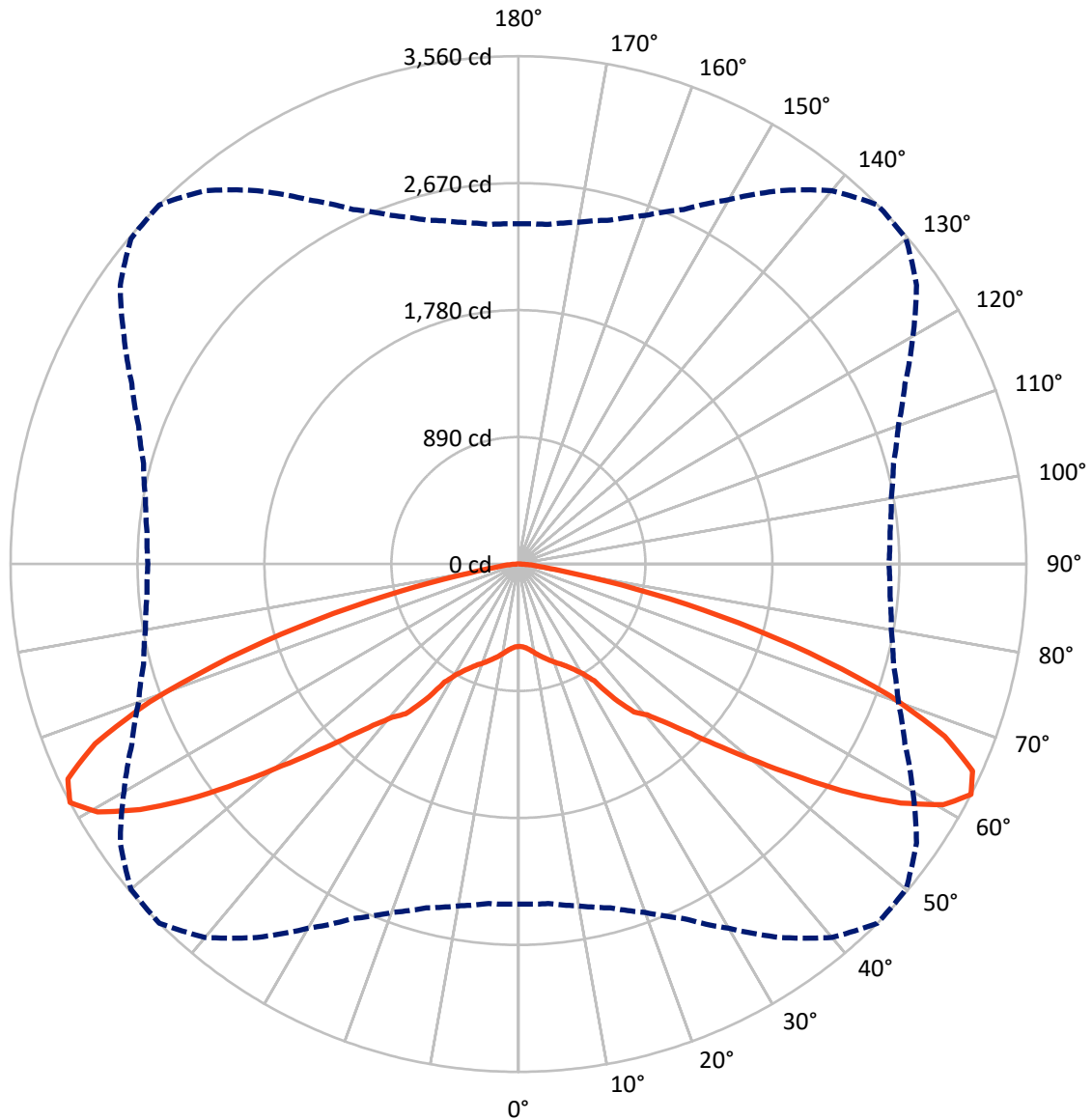
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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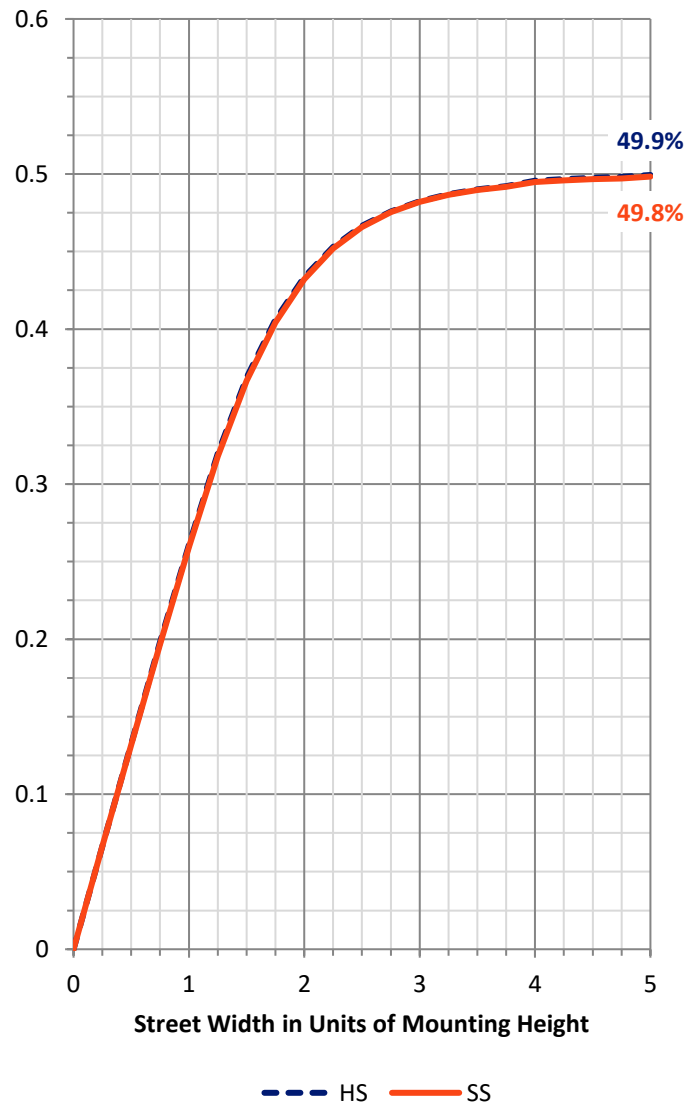
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4352.3	0.0	4352.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4352.3	0.0	4352.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8704.6	0.0	8704.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	0.7
10°-20°	195.7	2.2
20°-30°	378.5	4.3
30°-40°	732.8	8.4
40°-50°	1323.1	15.2
50°-60°	2300.7	26.4
60°-70°	2611.9	30.0
70°-80°	1012.6	11.6
80°-90°	91.3	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°	8704.6	100.0
0°-180°	8704.6	100.0



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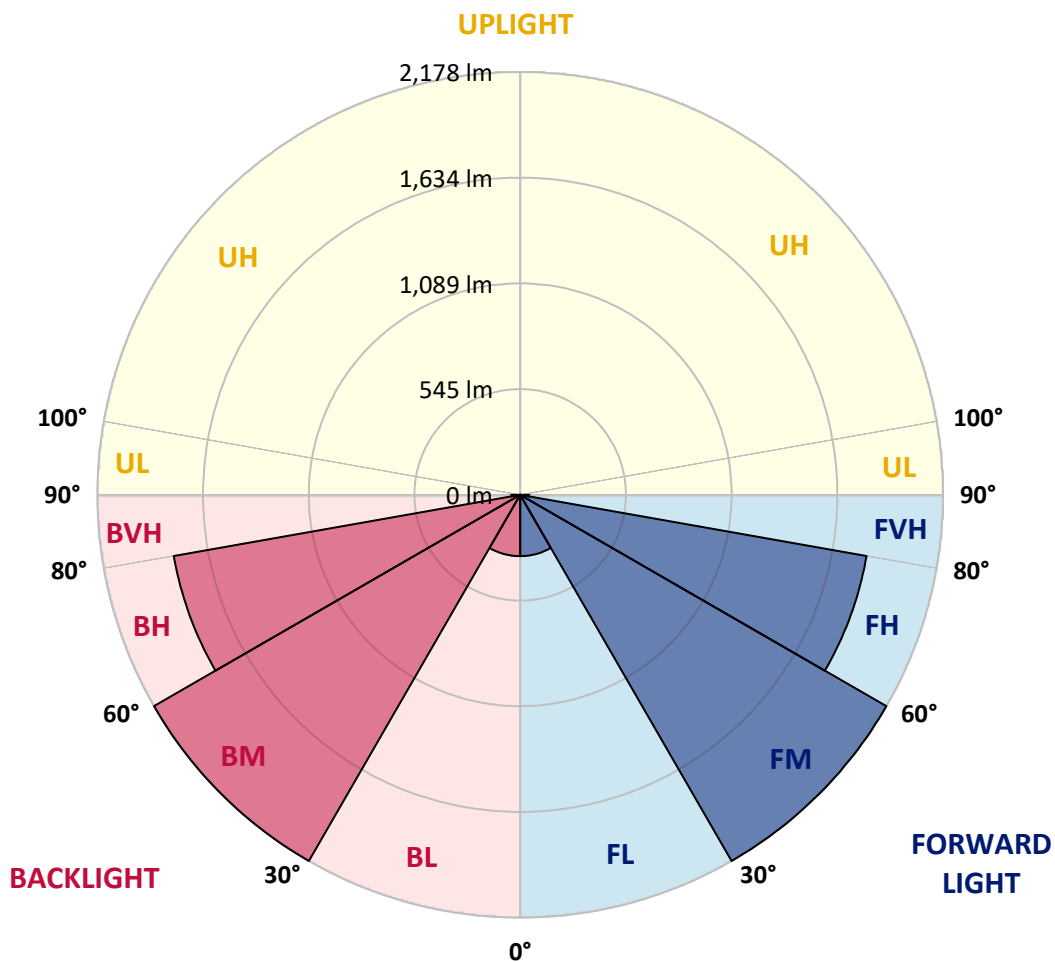
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.0	3.6			
FM	(30°-60°)	2178.3	25.0			
FH	(60°-80°)	1812.3	20.8			G2/5000
FVH	(80°-90°)	45.7	0.5			G1/100
BL	(0°-30°)	316.0	3.6	B1/500		
BM	(30°-60°)	2178.3	25.0	B2/2500		
BH	(60°-80°)	1812.3	20.8	B3/2500		G2/5000
BVH	(80°-90°)	45.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	581.4	583.2	582.8	581.8	581.8	581.8	581.4	580.0	579.6	580.5	581.4
5°	594.9	594.9	594.9	594.9	594.0	594.0	593.1	592.2	592.6	591.8	591.3
7.5°	615.6	614.2	614.2	613.8	613.8	612.9	611.6	609.8	610.2	609.8	609.3
10°	639.9	640.4	639.0	640.4	638.1	637.7	635.8	635.0	634.5	633.2	633.2
12.5°	669.2	667.8	667.8	666.9	666.0	665.1	662.4	662.0	660.2	659.2	657.9
15°	696.6	696.2	694.3	692.6	692.1	691.2	688.0	686.2	685.8	683.6	681.8
17.5°	724.0	723.2	720.9	720.0	718.2	716.8	714.2	711.4	710.1	709.2	707.0
20°	753.3	752.4	750.2	748.3	746.1	744.3	740.2	738.0	736.6	735.3	733.5
22.5°	789.8	788.0	784.4	781.2	776.2	774.4	769.0	765.9	763.7	761.8	761.0
25°	829.4	829.8	824.8	820.8	815.0	810.0	803.2	799.6	797.4	795.6	795.2
27.5°	878.9	879.4	874.8	869.0	860.0	854.6	845.6	841.0	839.7	837.9	837.4
30°	957.2	953.2	945.5	936.0	928.0	916.2	903.2	898.7	894.2	892.8	892.8
32.5°	1101.2	1098.9	1092.6	1069.2	1058.4	1034.2	1011.2	998.2	983.3	976.1	971.6
35°	1202.1	1201.2	1196.2	1188.1	1181.4	1176.4	1162.9	1160.6	1158.0	1158.0	1161.6
37.5°	1276.3	1270.9	1270.0	1271.4	1269.6	1270.4	1281.2	1296.1	1308.7	1315.0	1314.1
40°	1386.1	1378.4	1383.0	1379.8	1375.8	1374.8	1378.4	1384.3	1390.2	1390.2	1388.8
42.5°	1529.6	1533.2	1535.0	1522.0	1513.4	1511.2	1519.8	1518.0	1523.8	1521.6	1515.7
45°	1743.0	1740.7	1737.6	1721.8	1708.3	1697.5	1699.8	1696.6	1697.0	1693.4	1689.0
47.5°	1958.0	1965.7	1952.6	1945.0	1929.7	1922.0	1928.4	1923.0	1933.3	1914.4	1905.4
50°	2166.9	2172.3	2167.8	2157.0	2157.0	2167.8	2175.4	2185.3	2199.7	2178.1	2145.7
52.5°	2337.9	2342.4	2349.2	2358.2	2380.2	2403.1	2435.6	2470.2	2497.6	2493.6	2456.7
55°	2442.3	2447.7	2459.0	2490.0	2529.6	2589.9	2663.2	2743.8	2806.8	2837.4	2810.4
57.5°	2477.4	2481.4	2512.0	2549.4	2611.0	2700.6	2823.4	2962.5	3083.6	3160.5	3148.4
60°	2469.3	2469.3	2500.4	2551.6	2638.0	2756.9	2930.6	3123.2	3308.6	3423.8	3406.7
62.5°	2384.2	2388.7	2433.2	2494.9	2599.3	2741.6	2948.6	3194.8	3416.6	3559.7	3545.8
65°	2197.9	2201.0	2249.2	2322.6	2439.1	2607.4	2833.8	3106.6	3360.8	3498.5	3472.4
67.5°	1896.8	1900.0	1939.2	2022.0	2145.2	2321.2	2565.6	2865.8	3114.6	3223.6	3145.2
70°	1509.0	1518.0	1543.2	1630.9	1724.5	1896.8	2121.8	2422.0	2657.0	2760.0	2673.6
72.5°	1028.3	1051.2	1081.8	1159.7	1249.2	1392.4	1571.5	1824.4	2013.0	2132.2	2055.2
75°	579.2	611.6	621.0	680.0	753.8	866.8	997.7	1179.0	1369.4	1466.2	1373.5
77.5°	250.2	276.8	288.5	315.9	373.5	420.8	500.4	622.8	770.0	838.0	726.8
80°	123.3	129.6	134.6	143.1	159.3	174.6	212.4	266.0	326.2	341.6	271.8
82.5°	95.4	99.9	108.4	115.2	119.2	123.3	126.9	134.1	140.0	143.1	135.0
85°	67.1	72.9	82.4	90.0	94.5	97.6	100.8	103.0	97.6	89.1	93.6
87.5°	17.6	23.0	31.9	34.6	39.2	41.4	40.5	41.8	37.8	27.4	30.6
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°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	581.0	580.5	581.0	581.0	581.0	580.5	580.5	580.5
5°	591.3	591.3	591.8	590.8	590.8	591.3	590.8	590.4
7.5°	608.8	608.4	608.4	608.0	608.4	608.0	608.0	607.5
10°	632.2	631.4	631.8	630.4	630.4	630.0	630.0	630.0
12.5°	657.4	656.1	656.6	655.2	653.0	653.4	653.8	653.4
15°	681.8	680.4	679.0	678.2	676.8	677.2	677.2	676.8
17.5°	706.5	703.8	703.3	702.0	701.6	701.6	701.6	702.0
20°	732.2	730.3	729.9	728.6	728.1	729.4	729.9	729.0
22.5°	759.6	758.7	759.6	758.7	760.0	760.9	761.4	760.5
25°	794.2	793.3	794.7	797.8	799.6	800.6	802.8	801.9
27.5°	838.8	837.9	841.0	845.6	848.2	852.8	855.0	855.9
30°	896.4	900.5	902.3	911.3	913.1	920.3	920.3	923.5
32.5°	980.2	987.8	1001.4	1015.3	1034.6	1048.6	1048.6	1055.8
35°	1163.8	1166.9	1177.3	1179.6	1183.6	1188.1	1183.6	1187.2
37.5°	1304.6	1290.7	1280.8	1266.8	1258.3	1258.3	1259.2	1258.3
40°	1376.6	1371.2	1366.8	1355.1	1353.2	1352.8	1352.8	1354.6
42.5°	1505.4	1492.3	1485.1	1475.2	1472.0	1471.1	1470.7	1471.6
45°	1672.8	1651.6	1632.2	1622.4	1613.8	1605.7	1608.4	1608.4
47.5°	1867.6	1834.8	1803.2	1786.2	1771.3	1764.6	1760.0	1758.7
50°	2104.8	2058.8	2018.4	1986.4	1964.8	1964.4	1966.6	1952.2
52.5°	2395.5	2323.0	2272.6	2229.4	2209.2	2206.9	2199.7	2191.6
55°	2717.7	2631.8	2548.5	2502.2	2475.6	2461.2	2452.6	2439.1
57.5°	3049.8	2934.2	2814.4	2740.2	2693.4	2661.0	2643.9	2636.2
60°	3305.9	3147.9	2990.0	2870.7	2792.9	2744.7	2715.0	2702.8
62.5°	3406.7	3192.5	2990.0	2833.4	2720.8	2654.2	2614.2	2596.6
65°	3286.6	3032.8	2802.3	2629.4	2503.9	2429.6	2386.0	2367.1
67.5°	2950.9	2726.7	2476.0	2304.1	2175.0	2101.6	2054.4	2040.4
70°	2473.8	2244.7	2005.3	1851.8	1736.6	1676.8	1627.8	1621.9
72.5°	1859.0	1661.5	1456.3	1329.4	1236.7	1137.7	1112.5	1125.1
75°	1191.7	1006.7	824.0	709.7	625.0	530.6	494.1	503.1
77.5°	564.3	436.9	315.5	243.9	204.8	175.0	167.4	162.9
80°	209.2	169.6	149.8	142.2	136.8	131.8	128.2	124.2
82.5°	135.4	132.3	128.2	126.9	122.8	116.6	104.8	99.9
85°	101.2	101.2	95.8	96.3	93.2	85.0	74.2	68.4
87.5°	29.7	26.6	24.3	22.5	22.0	19.8	14.4	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)