

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: P179981

Luminaire Tested: **ICM-F03-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179981
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-F03-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6268.3 lumens
Efficiency: N/A
Efficacy: 80.1 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 - G1

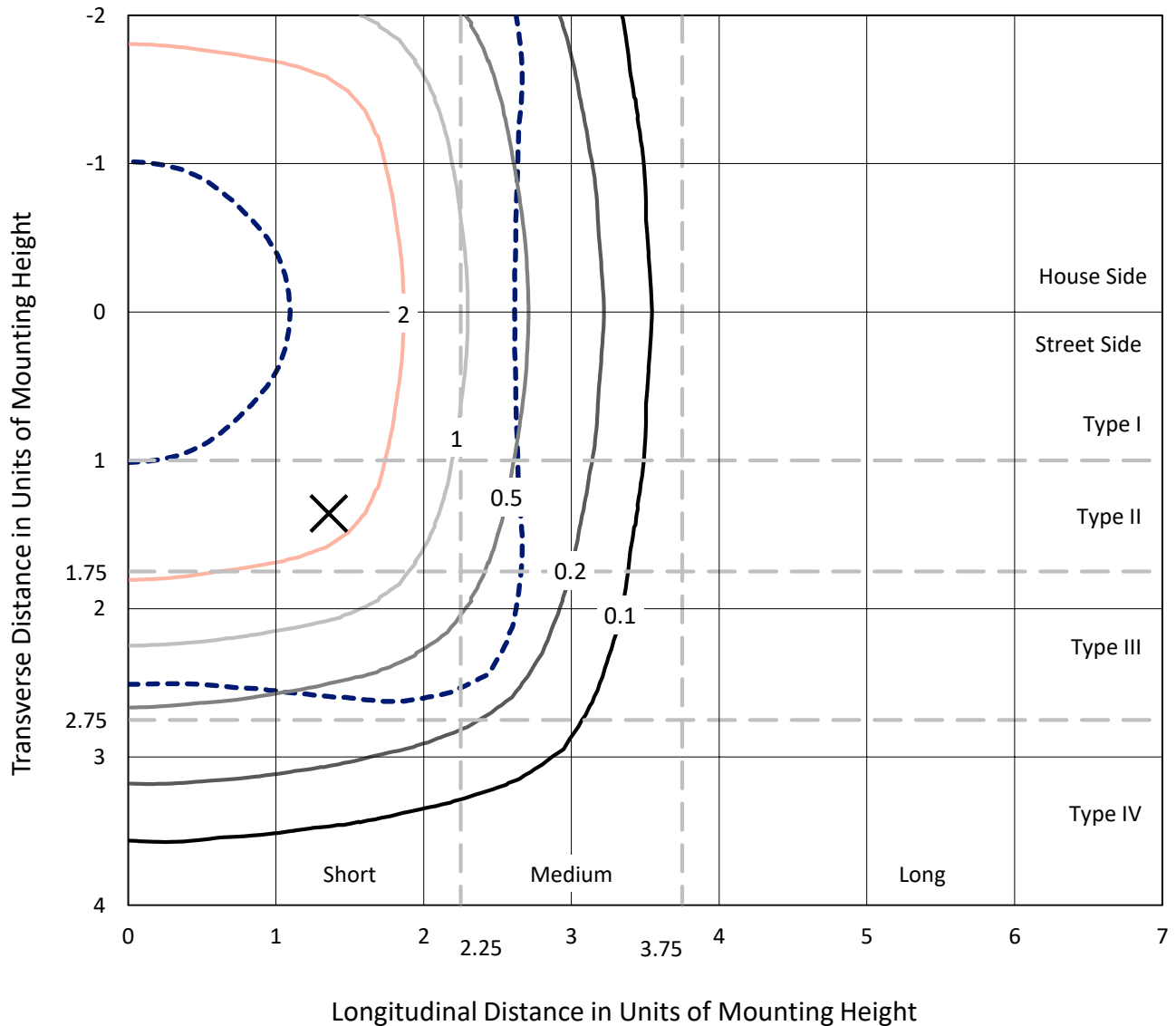
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

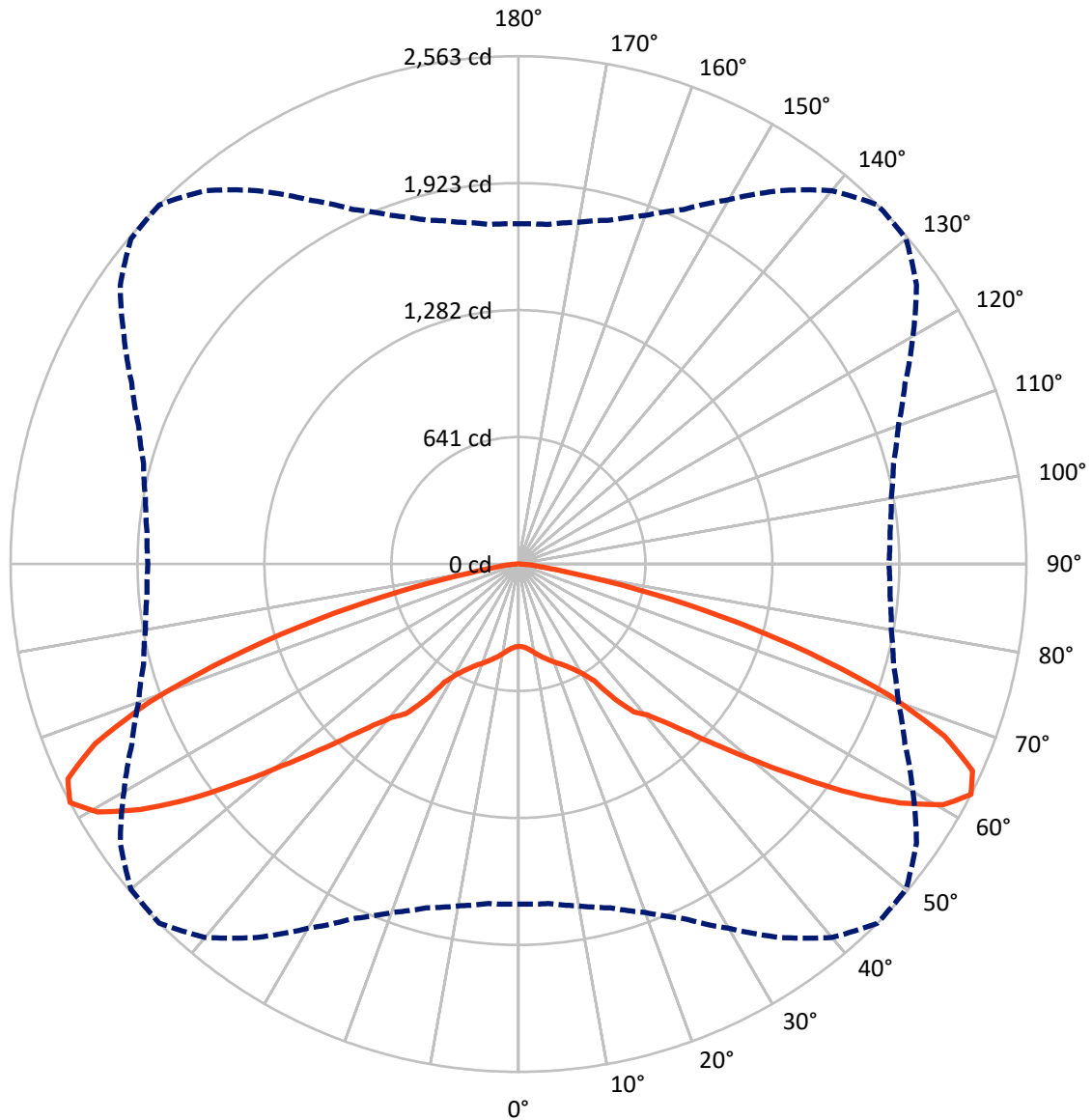
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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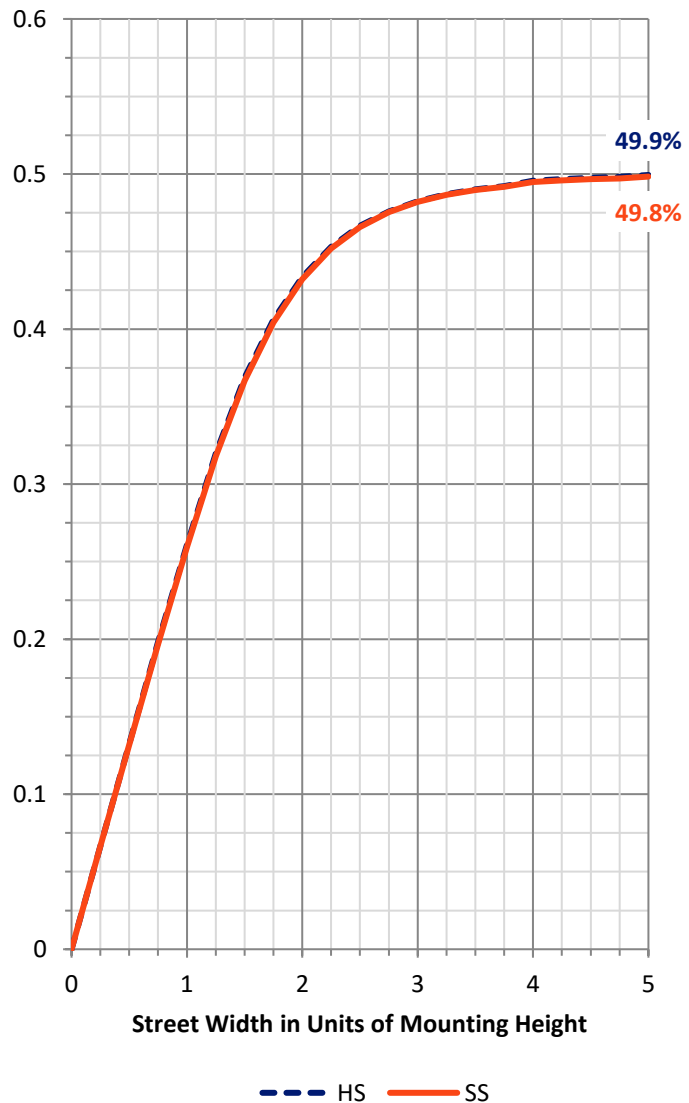
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3134.1	0.0	3134.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3134.1	0.0	3134.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6268.3	0.0	6268.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	0.7
10°-20°	141.0	2.2
20°-30°	272.5	4.3
30°-40°	527.7	8.4
40°-50°	952.8	15.2
50°-60°	1656.8	26.4
60°-70°	1880.9	30.0
70°-80°	729.2	11.6
80°-90°	65.8	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°	6268.3	100.0
0°-180°	6268.3	100.0



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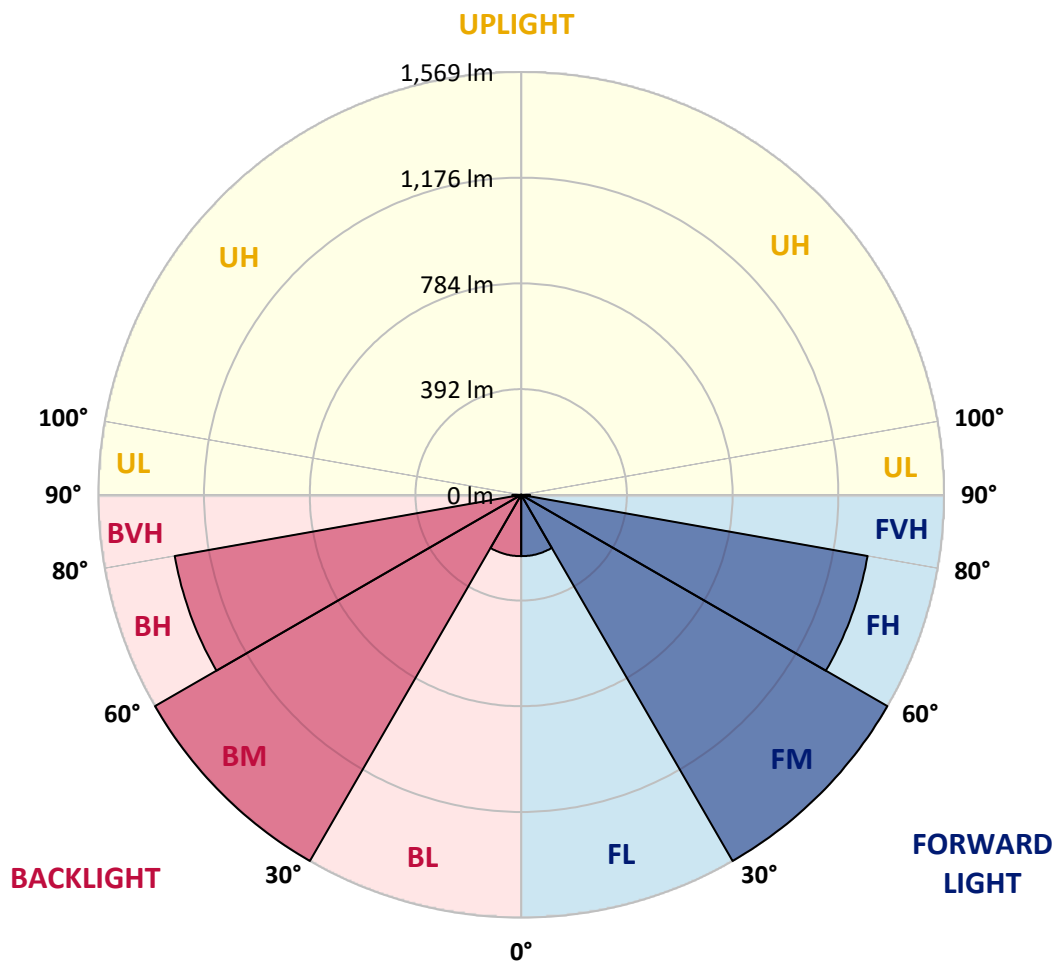
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.6	3.6			
FM	(30°-60°)	1568.6	25.0			
FH	(60°-80°)	1305.0	20.8			G1/1800
FVH	(80°-90°)	32.9	0.5			G1/100
BL	(0°-30°)	227.6	3.6	B1/500		
BM	(30°-60°)	1568.6	25.0	B2/2500		
BH	(60°-80°)	1305.0	20.8	B3/2500		G1/1800
BVH	(80°-90°)	32.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	418.7	420.0	419.7	419.0	419.0	419.0	418.7	417.7	417.3	418.0	418.6
5°	428.5	428.5	428.5	428.5	427.7	427.7	427.2	426.5	426.8	426.1	425.9
7.5°	443.4	442.3	442.3	442.0	442.0	441.3	440.4	439.1	439.4	439.1	438.8
10°	460.8	461.2	460.2	461.1	459.5	459.2	457.9	457.3	456.9	456.0	456.0
12.5°	481.9	480.9	480.9	480.3	479.6	478.9	477.0	476.7	475.4	474.8	473.8
15°	501.6	501.3	500.0	498.7	498.4	497.7	495.4	494.1	493.9	492.3	491.0
17.5°	521.4	520.7	519.1	518.5	517.2	516.3	514.2	512.4	511.4	510.7	509.0
20°	542.5	541.8	540.2	538.9	537.3	536.0	533.0	531.4	530.4	529.5	528.2
22.5°	568.7	567.4	564.8	562.6	559.0	557.7	553.9	551.6	550.0	548.7	547.9
25°	597.2	597.6	594.1	591.1	586.9	583.4	578.4	575.8	574.3	572.9	572.7
27.5°	632.9	633.2	630.0	625.8	619.4	615.4	608.9	605.7	604.7	603.4	603.1
30°	689.3	686.3	680.9	674.1	668.2	659.7	650.4	647.2	643.9	643.0	643.0
32.5°	792.9	791.4	786.8	770.1	762.2	744.7	728.2	718.7	708.1	702.9	699.7
35°	865.6	864.9	861.4	855.5	850.6	847.1	837.4	835.7	833.9	833.9	836.5
37.5°	919.1	915.2	914.5	915.5	914.2	914.8	922.6	933.3	942.3	947.0	946.2
40°	998.1	992.6	995.9	993.6	990.7	990.0	992.7	996.8	1001.0	1001.0	1000.1
42.5°	1101.5	1104.1	1105.4	1096.0	1089.9	1088.2	1094.3	1093.0	1097.3	1095.6	1091.4
45°	1255.1	1253.5	1251.2	1239.8	1230.1	1222.3	1224.0	1221.7	1222.1	1219.4	1216.2
47.5°	1410.1	1415.5	1406.1	1400.6	1389.6	1384.1	1388.7	1384.8	1392.2	1378.6	1372.1
50°	1560.4	1564.3	1561.0	1553.2	1553.3	1561.0	1566.5	1573.6	1584.0	1568.5	1545.1
52.5°	1683.5	1686.7	1691.6	1698.1	1714.0	1730.5	1753.9	1778.8	1798.5	1795.6	1769.1
55°	1758.7	1762.6	1770.7	1793.1	1821.6	1864.9	1917.8	1975.8	2021.2	2043.2	2023.8
57.5°	1784.0	1786.9	1808.9	1835.8	1880.2	1944.8	2033.1	2133.4	2220.5	2275.9	2267.2
60°	1778.2	1778.2	1800.5	1837.4	1899.6	1985.2	2110.3	2249.0	2382.5	2465.5	2453.2
62.5°	1716.8	1720.2	1752.2	1796.7	1871.8	1974.2	2123.3	2300.6	2460.3	2563.4	2553.3
65°	1582.7	1584.9	1619.7	1672.6	1756.5	1877.6	2040.7	2237.0	2420.1	2519.3	2500.5
67.5°	1366.0	1368.2	1396.4	1456.0	1544.8	1671.5	1847.5	2063.6	2242.8	2321.3	2264.9
70°	1086.6	1093.1	1111.3	1174.4	1241.8	1366.0	1528.0	1744.1	1913.3	1987.5	1925.2
72.5°	740.5	757.0	779.0	835.2	899.6	1002.6	1131.6	1313.8	1449.5	1535.5	1480.0
75°	417.1	440.4	447.3	489.7	542.8	624.1	718.4	849.1	986.1	1055.8	989.0
77.5°	180.2	199.3	207.7	227.5	269.0	303.0	360.4	448.6	554.5	603.4	523.4
80°	88.7	93.4	96.9	103.1	114.7	125.7	152.9	191.5	235.0	246.0	195.7
82.5°	68.7	71.9	78.1	83.0	86.0	88.7	91.3	96.6	100.8	103.1	97.2
85°	48.3	52.5	59.3	64.7	68.1	70.3	72.6	74.2	70.3	64.2	67.3
87.5°	12.7	16.6	23.0	24.9	28.2	29.8	29.2	30.1	27.2	19.7	22.0
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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	418.4	418.0	418.4	418.4	418.4	418.0	418.0	418.0
5°	425.9	425.9	426.1	425.5	425.5	425.9	425.5	425.2
7.5°	438.5	438.1	438.1	437.8	438.1	437.8	437.8	437.5
10°	455.3	454.7	455.0	454.0	454.0	453.7	453.7	453.7
12.5°	473.5	472.5	472.7	471.8	470.2	470.5	470.9	470.5
15°	491.0	490.0	489.0	488.4	487.4	487.7	487.7	487.4
17.5°	508.7	506.8	506.5	505.5	505.2	505.2	505.2	505.6
20°	527.3	526.0	525.6	524.7	524.4	525.3	525.6	525.0
22.5°	547.0	546.4	547.0	546.4	547.4	548.0	548.3	547.6
25°	571.9	571.4	572.3	574.5	575.8	576.6	578.1	577.5
27.5°	604.0	603.4	605.7	608.9	610.9	614.1	615.7	616.4
30°	645.6	648.5	649.7	656.2	657.5	662.7	662.7	665.0
32.5°	705.9	711.3	721.0	731.1	745.0	755.1	755.1	760.3
35°	838.1	840.3	847.8	849.3	852.3	855.5	852.3	854.9
37.5°	939.5	929.5	922.2	912.2	906.1	906.1	906.8	906.1
40°	991.3	987.4	984.1	975.7	974.5	974.1	974.1	975.4
42.5°	1084.0	1074.6	1069.4	1062.2	1060.0	1059.4	1059.0	1059.7
45°	1204.6	1189.3	1175.4	1168.2	1162.1	1156.3	1158.2	1158.2
47.5°	1344.9	1321.2	1298.5	1286.2	1275.5	1270.6	1267.4	1266.4
50°	1515.6	1482.6	1453.4	1430.4	1414.9	1414.5	1416.2	1405.8
52.5°	1725.0	1672.8	1636.5	1605.4	1590.9	1589.2	1584.0	1578.2
55°	1957.0	1895.1	1835.2	1801.9	1782.7	1772.3	1766.2	1756.5
57.5°	2196.2	2112.9	2026.7	1973.2	1939.5	1916.2	1903.8	1898.3
60°	2380.6	2266.8	2153.1	2067.2	2011.2	1976.5	1955.1	1946.3
62.5°	2453.2	2299.0	2153.1	2040.4	1959.3	1911.4	1882.4	1869.9
65°	2366.6	2183.8	2017.9	1893.5	1803.2	1749.6	1718.2	1704.6
67.5°	2124.9	1963.5	1783.0	1659.2	1566.1	1513.4	1479.4	1469.3
70°	1781.4	1616.5	1444.1	1333.6	1250.6	1207.4	1172.1	1167.9
72.5°	1338.7	1196.5	1048.7	957.3	890.6	819.3	801.1	810.1
75°	858.1	724.9	593.3	511.1	450.0	382.0	355.9	362.3
77.5°	406.4	314.7	227.2	175.6	147.5	126.0	120.6	117.3
80°	150.7	122.2	107.9	102.3	98.5	94.9	92.3	89.4
82.5°	97.5	95.3	92.4	91.3	88.5	83.9	75.5	71.9
85°	72.9	72.9	69.0	69.4	67.1	61.2	53.4	49.3
87.5°	21.4	19.2	17.5	16.2	15.8	14.2	10.3	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)