

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: P180026

Luminaire Tested: **ICS-E02-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180026
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-E02-LED-E1-5MQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

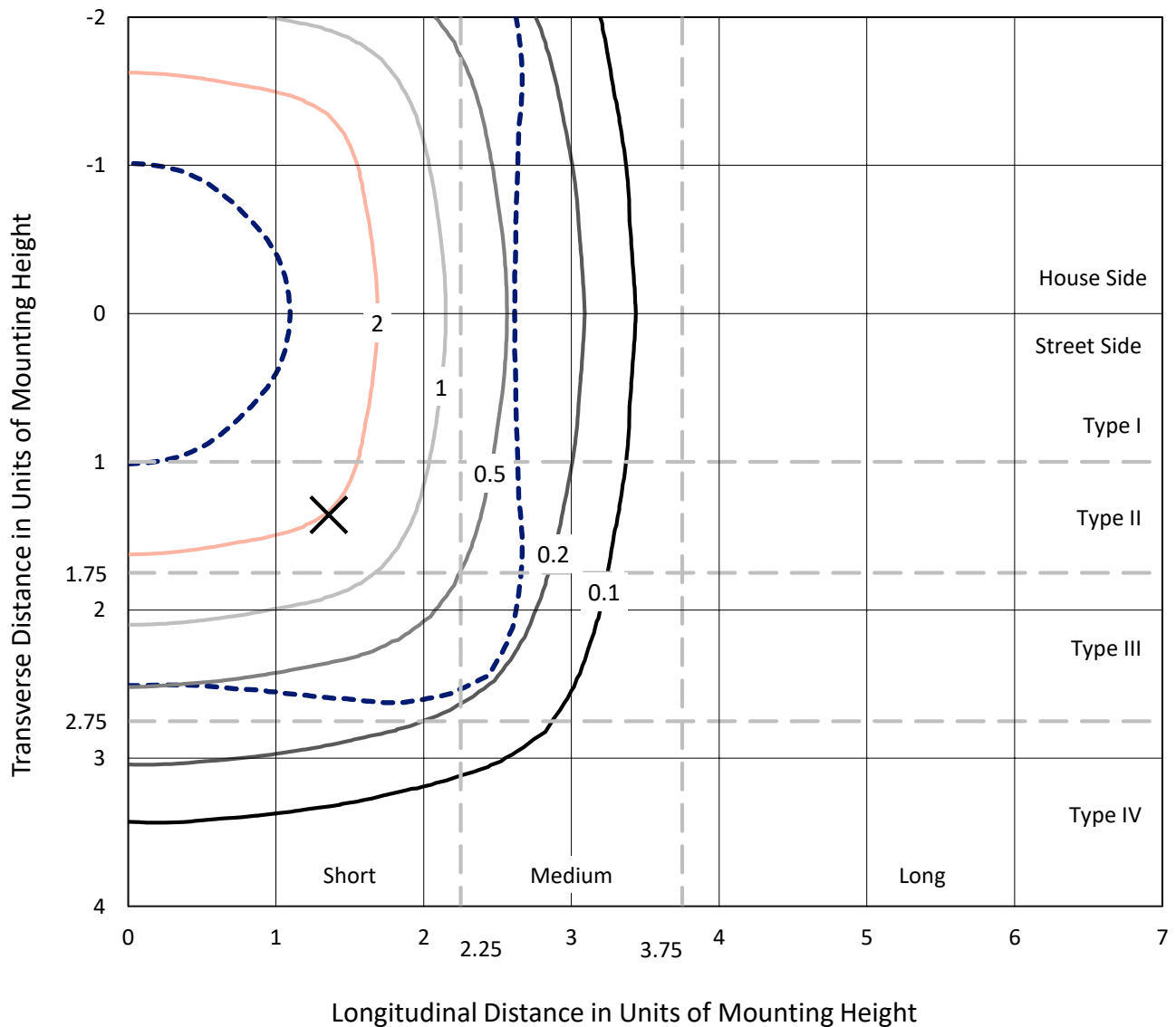
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

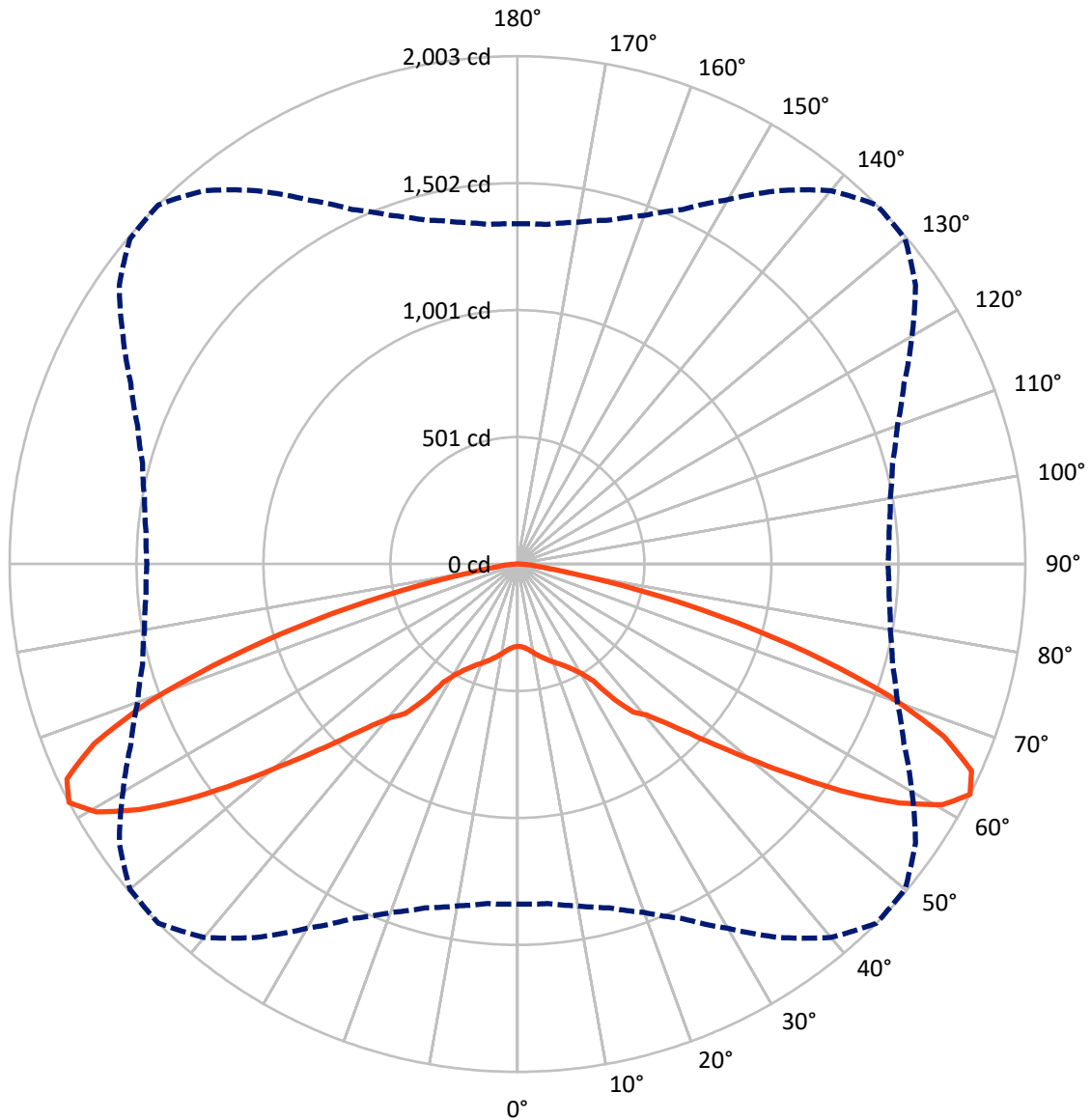
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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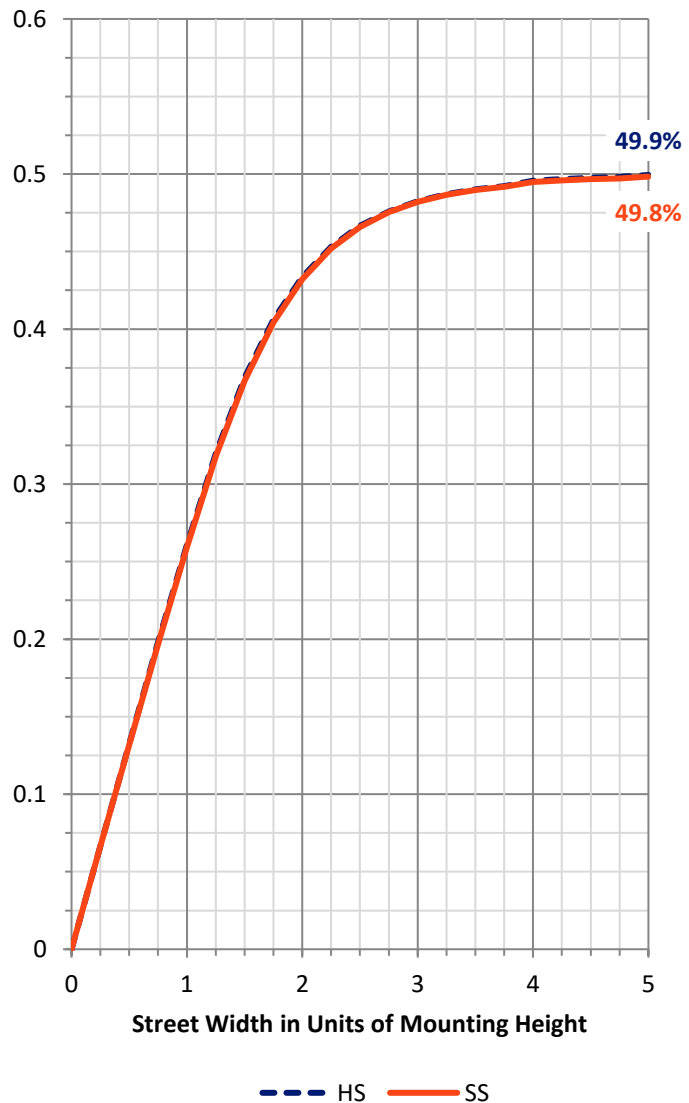
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2448.9	0.0	2448.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2448.9	0.0	2448.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4897.8	0.0	4897.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	0.7
10°-20°	110.1	2.2
20°-30°	213.0	4.3
30°-40°	412.3	8.4
40°-50°	744.5	15.2
50°-60°	1294.5	26.4
60°-70°	1469.6	30.0
70°-80°	569.8	11.6
80°-90°	51.4	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°	4897.8	100.0
0°-180°	4897.8	100.0



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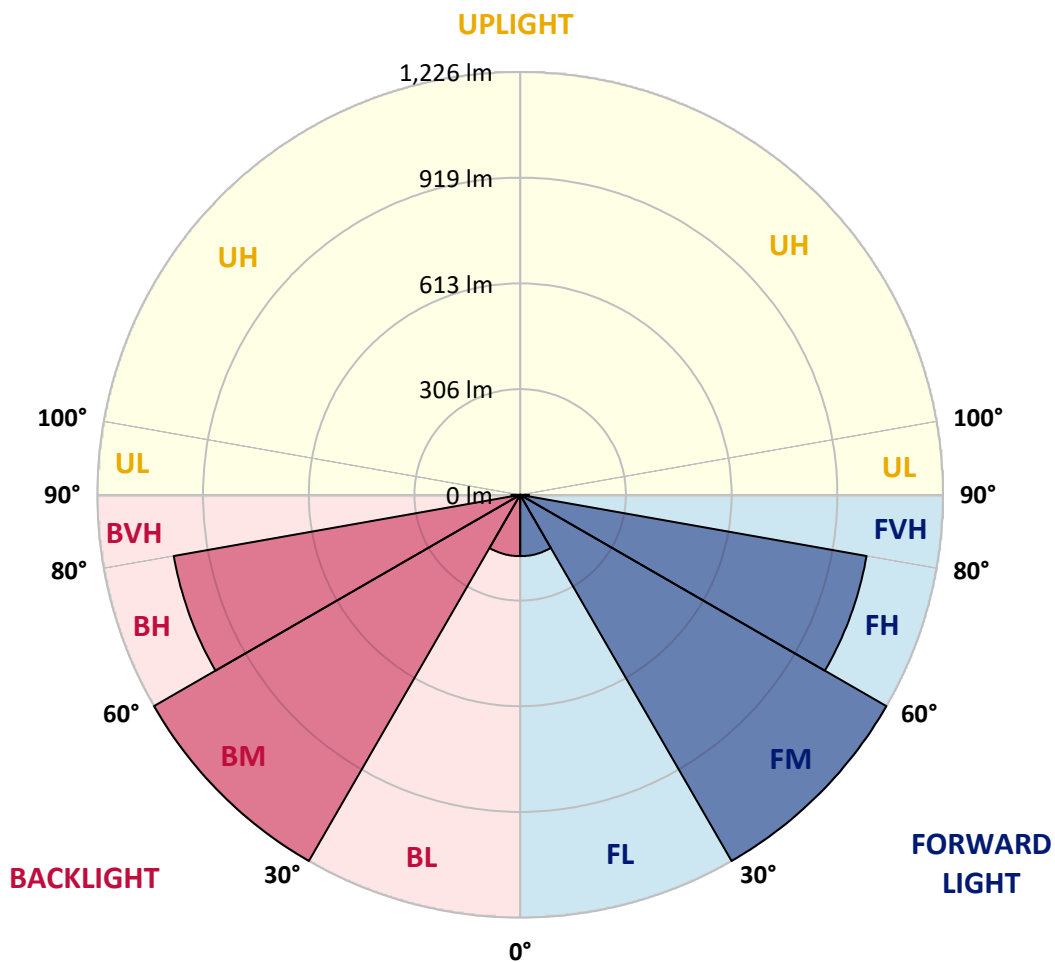
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.8	3.6			
FM (30°-60°)	1225.7	25.0			
FH (60°-80°)	1019.7	20.8			G1/1800
FVH (80°-90°)	25.7	0.5			G1/100
BL (0°-30°)	177.8	3.6	B1/500		
BM (30°-60°)	1225.7	25.0	B2/2500		
BH (60°-80°)	1019.7	20.8	B3/2500		G1/1800
BVH (80°-90°)	25.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1
2.5°	327.2	328.2	327.9	327.4	327.4	327.4	327.2	326.4	326.1	326.6	327.2
5°	334.8	334.8	334.8	334.8	334.2	334.2	333.7	333.2	333.4	333.0	332.8
7.5°	346.4	345.6	345.6	345.4	345.4	344.9	344.1	343.1	343.4	343.1	342.8
10°	360.0	360.3	359.5	360.3	359.0	358.8	357.8	357.2	357.0	356.3	356.2
12.5°	376.5	375.8	375.8	375.2	374.8	374.2	372.7	372.4	371.5	371.0	370.2
15°	392.0	391.7	390.7	389.7	389.4	388.9	387.2	386.2	385.9	384.6	383.6
17.5°	407.4	406.9	405.6	405.1	404.1	403.4	401.8	400.3	399.6	399.1	397.8
20°	423.9	423.4	422.2	421.0	419.8	418.8	416.5	415.2	414.5	413.7	412.7
22.5°	444.4	443.4	441.4	439.6	436.8	435.8	432.8	431.0	429.7	428.6	428.2
25°	466.7	467.0	464.1	461.8	458.6	455.8	452.0	450.0	448.7	447.6	447.4
27.5°	494.5	494.8	492.2	489.0	483.9	480.8	475.8	473.2	472.5	471.5	471.2
30°	538.6	536.3	532.0	526.6	522.2	515.6	508.2	505.6	503.2	502.4	502.4
32.5°	619.7	618.4	614.8	601.6	595.6	581.8	569.0	561.6	553.3	549.2	546.7
35°	676.3	675.8	673.0	668.5	664.7	661.9	654.3	653.0	651.5	651.5	653.6
37.5°	718.1	715.1	714.6	715.3	714.3	714.8	720.9	729.2	736.4	739.9	739.4
40°	779.9	775.6	778.1	776.4	774.0	773.6	775.6	778.8	782.2	782.2	781.4
42.5°	860.6	862.7	863.7	856.4	851.6	850.3	855.1	854.0	857.4	856.1	852.8
45°	980.7	979.4	977.6	968.8	961.2	955.1	956.4	954.6	954.8	952.8	950.3
47.5°	1101.8	1106.0	1098.6	1094.4	1085.8	1081.5	1085.0	1082.0	1087.8	1077.2	1072.1
50°	1219.2	1222.2	1219.8	1213.6	1213.6	1219.8	1224.1	1229.6	1237.7	1225.6	1207.3
52.5°	1315.4	1318.0	1321.8	1326.8	1339.2	1352.2	1370.4	1389.9	1405.3	1403.0	1382.2
55°	1374.2	1377.2	1383.6	1401.0	1423.3	1457.2	1498.5	1543.8	1579.2	1596.5	1581.3
57.5°	1393.9	1396.2	1413.4	1434.4	1469.2	1519.5	1588.6	1666.9	1735.0	1778.3	1771.4
60°	1389.4	1389.4	1406.8	1435.7	1484.4	1551.2	1649.0	1757.3	1861.6	1926.4	1916.8
62.5°	1341.5	1344.0	1369.1	1403.8	1462.6	1542.6	1659.0	1797.5	1922.4	2002.9	1995.0
65°	1236.7	1238.5	1265.6	1306.8	1372.4	1467.1	1594.5	1747.9	1891.0	1968.4	1953.8
67.5°	1067.3	1069.1	1091.1	1137.7	1207.0	1306.1	1443.6	1612.4	1752.4	1813.8	1769.6
70°	849.0	854.0	868.2	917.6	970.3	1067.2	1193.9	1362.8	1495.0	1553.0	1504.4
72.5°	578.6	591.5	608.8	652.5	702.9	783.4	884.2	1026.6	1132.6	1199.8	1156.4
75°	325.9	344.1	349.5	382.6	424.2	487.7	561.4	663.4	770.5	825.0	772.8
77.5°	140.8	155.7	162.3	177.8	210.2	236.8	281.6	350.4	433.2	471.5	408.9
80°	69.4	72.9	75.7	80.5	89.6	98.2	119.5	149.6	183.6	192.2	153.0
82.5°	53.7	56.2	61.0	64.8	67.1	69.4	71.4	75.4	78.8	80.5	76.0
85°	37.7	41.1	46.3	50.6	53.2	55.0	56.8	58.0	54.9	50.2	52.6
87.5°	9.9	12.9	18.0	19.5	22.0	23.3	22.8	23.6	21.3	15.4	17.2
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°	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1
2.5°	326.9	326.6	326.9	326.9	326.9	326.6	326.6	326.6
5°	332.8	332.7	333.0	332.5	332.5	332.8	332.4	332.2
7.5°	342.6	342.4	342.4	342.1	342.4	342.1	342.1	341.8
10°	355.8	355.2	355.6	354.8	354.8	354.5	354.5	354.5
12.5°	370.0	369.2	369.4	368.7	367.4	367.7	367.9	367.7
15°	383.6	382.8	382.1	381.6	380.8	381.1	381.1	380.8
17.5°	397.6	396.0	395.8	395.0	394.8	394.8	394.8	395.0
20°	412.0	411.0	410.7	410.0	409.7	410.5	410.7	410.2
22.5°	427.4	426.9	427.4	426.9	427.6	428.2	428.4	427.9
25°	447.0	446.4	447.2	449.0	450.0	450.5	451.8	451.2
27.5°	472.0	471.4	473.2	475.8	477.3	479.8	481.1	481.6
30°	504.4	506.6	507.7	512.8	513.8	517.8	517.8	519.6
32.5°	551.5	555.8	563.3	571.2	582.2	590.0	590.0	594.0
35°	654.8	656.6	662.4	663.6	666.0	668.5	666.0	668.0
37.5°	734.0	726.2	720.6	712.8	708.0	708.0	708.5	708.0
40°	774.6	771.5	769.0	762.4	761.4	761.2	761.2	762.2
42.5°	847.0	839.6	835.6	830.0	828.2	827.8	827.5	828.0
45°	941.2	929.3	918.4	912.8	908.0	903.4	905.0	905.0
47.5°	1050.8	1032.4	1014.6	1005.0	996.6	992.8	990.4	989.5
50°	1184.2	1158.4	1135.6	1117.7	1105.6	1105.2	1106.6	1098.4
52.5°	1347.8	1307.1	1278.7	1254.4	1243.0	1241.8	1237.7	1233.1
55°	1529.2	1480.8	1434.0	1407.8	1393.0	1384.8	1380.0	1372.4
57.5°	1716.0	1651.0	1583.6	1541.8	1515.4	1497.2	1487.6	1483.3
60°	1860.0	1771.2	1682.4	1615.2	1571.4	1544.4	1527.6	1520.8
62.5°	1916.8	1796.3	1682.3	1594.2	1530.9	1493.4	1470.9	1461.0
65°	1849.2	1706.4	1576.8	1479.5	1408.8	1367.1	1342.5	1331.9
67.5°	1660.3	1534.2	1393.2	1296.4	1223.8	1182.5	1155.9	1148.1
70°	1391.9	1263.0	1128.3	1042.0	977.2	943.4	915.9	912.6
72.5°	1046.0	934.8	819.4	748.0	695.8	640.1	626.0	633.0
75°	670.5	566.4	463.6	399.3	351.7	298.6	278.0	283.1
77.5°	317.6	245.8	177.5	137.2	115.2	98.5	94.2	91.7
80°	117.8	95.4	84.3	80.0	77.0	74.2	72.2	69.9
82.5°	76.2	74.4	72.2	71.4	69.1	65.6	59.0	56.2
85°	57.0	57.0	54.0	54.2	52.4	47.8	41.8	38.5
87.5°	16.7	15.0	13.6	12.6	12.4	11.2	8.1	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)