

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: P180048

Luminaire Tested: **ICS-E04-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180048
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-E04-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11606.2 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 97.2
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

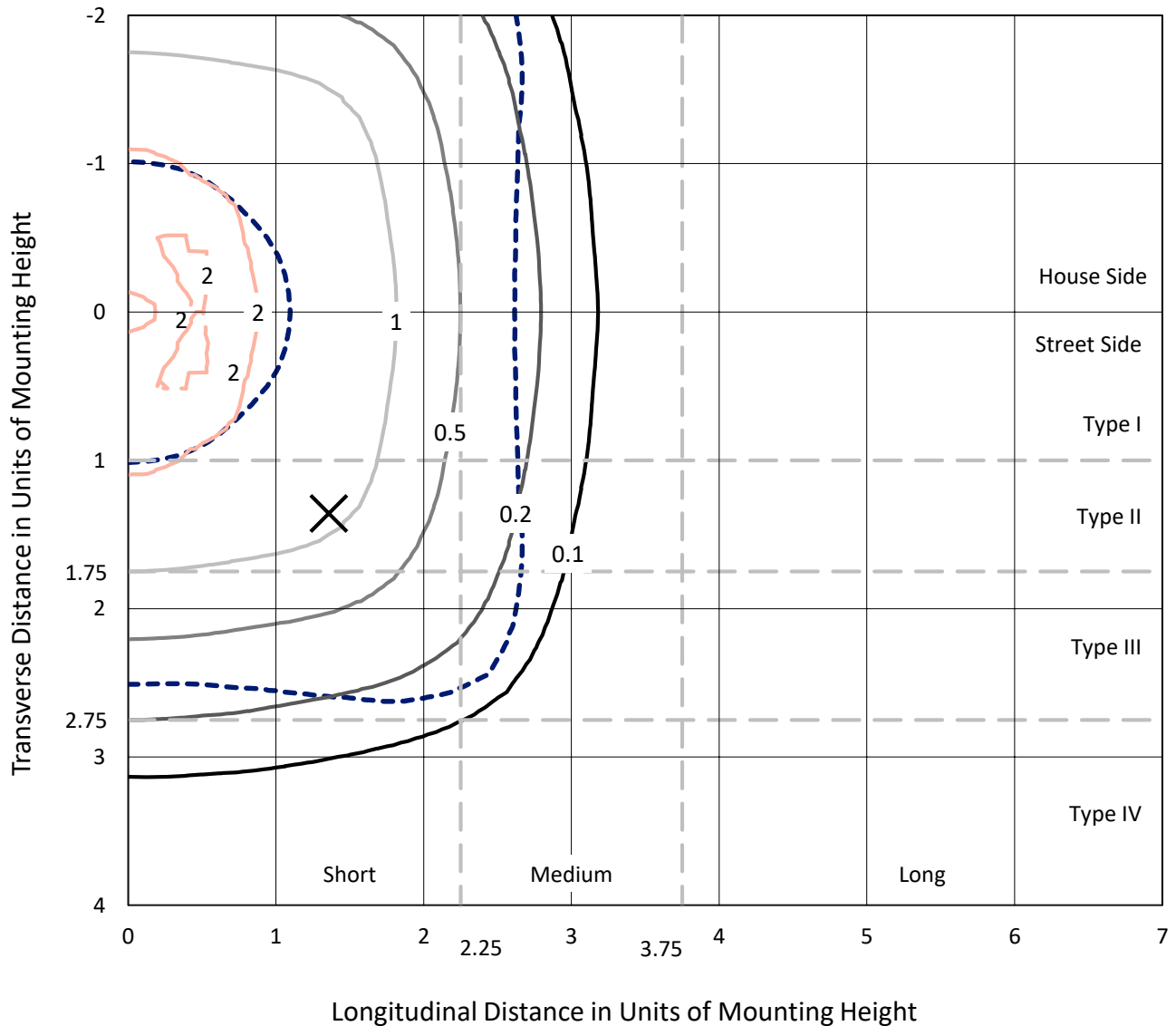


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Iso-Footcandle Lines of Horizontal Illumination

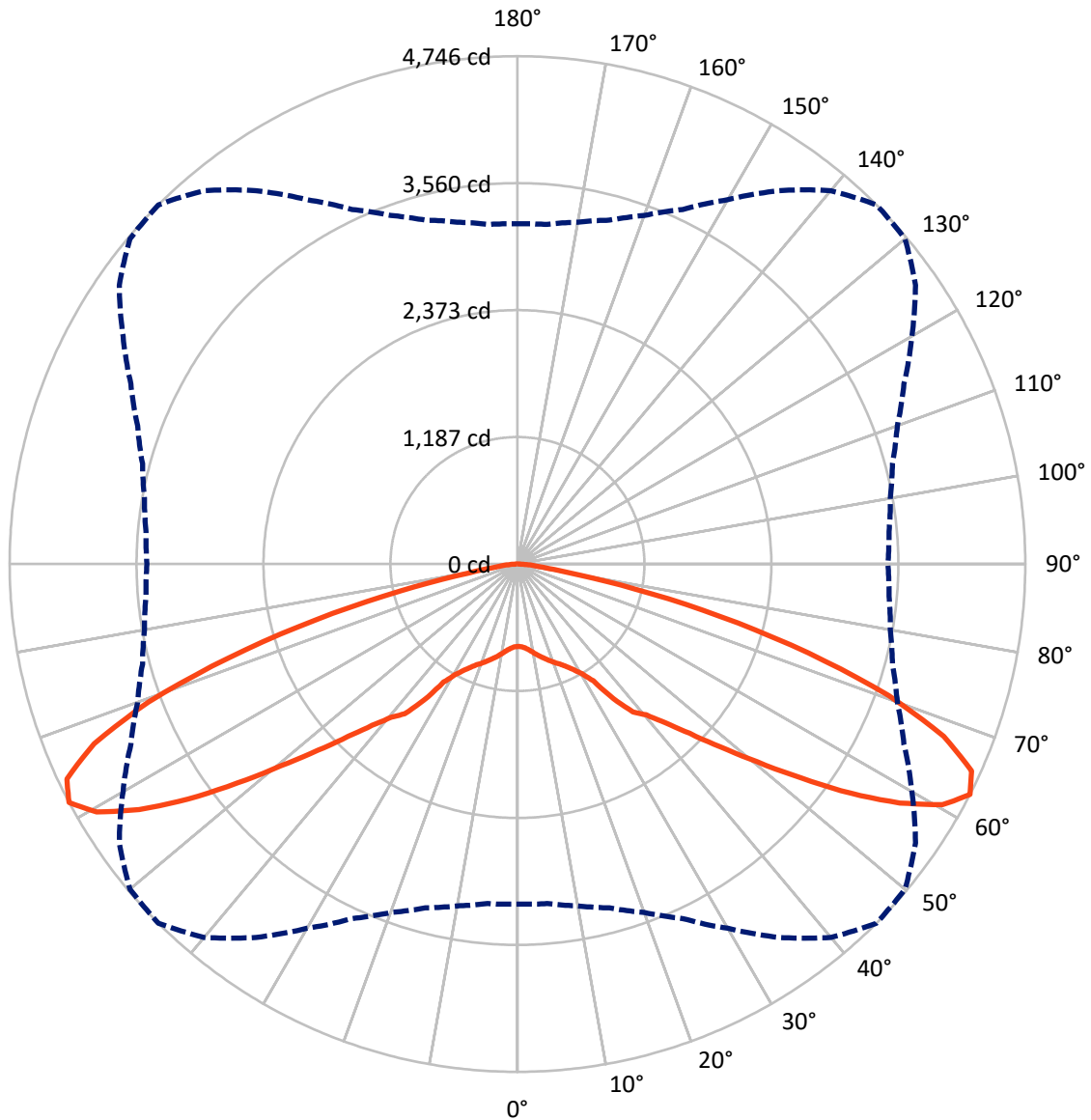
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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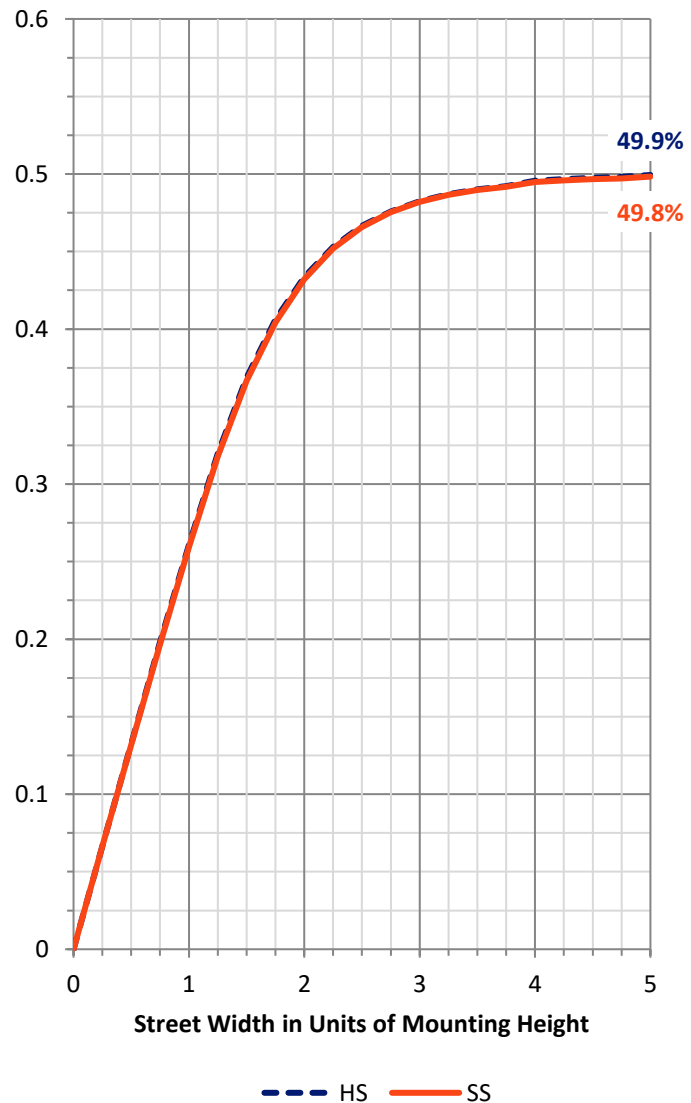
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5803.1	0.0	5803.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5803.1	0.0	5803.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11606.2	0.0	11606.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	0.7
10°-20°	261.0	2.2
20°-30°	504.7	4.3
30°-40°	977.1	8.4
40°-50°	1764.2	15.2
50°-60°	3067.6	26.4
60°-70°	3482.6	30.0
70°-80°	1350.1	11.6
80°-90°	121.8	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°	11606.2	100.0
0°-180°	11606.2	100.0

Coefficient of Utilization



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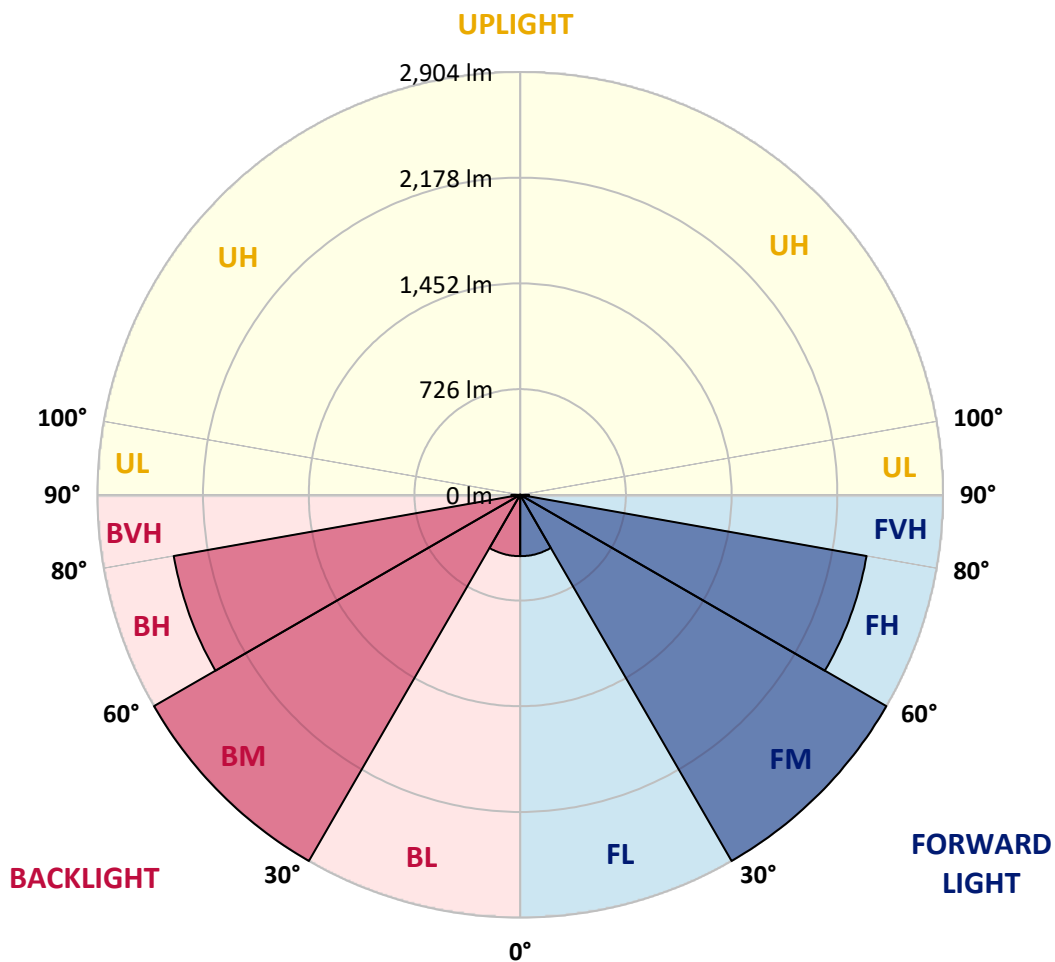
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.4	3.6			
FM	(30°-60°)	2904.4	25.0			
FH	(60°-80°)	2416.4	20.8			G2/5000
FVH	(80°-90°)	60.9	0.5			G1/100
BL	(0°-30°)	421.4	3.6	B1/500		
BM	(30°-60°)	2904.4	25.0	B3/5000		
BH	(60°-80°)	2416.4	20.8	B3/2500		G2/5000
BVH	(80°-90°)	60.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	775.2	777.6	777.0	775.8	775.8	775.8	775.2	773.4	772.8	774.0	775.2
5°	793.2	793.2	793.2	793.2	792.0	792.0	790.8	789.6	790.2	789.0	788.4
7.5°	820.8	819.0	819.0	818.4	818.4	817.2	815.4	813.0	813.6	813.0	812.4
10°	853.2	853.8	852.0	853.8	850.8	850.2	847.8	846.6	846.0	844.2	844.2
12.5°	892.2	890.4	890.4	889.2	888.0	886.8	883.2	882.6	880.2	879.0	877.2
15°	928.8	928.2	925.8	923.4	922.8	921.6	917.4	915.0	914.4	911.4	909.0
17.5°	965.4	964.2	961.2	960.0	957.6	955.8	952.2	948.6	946.8	945.6	942.6
20°	1004.5	1003.3	1000.3	997.9	994.9	992.5	987.1	984.1	982.3	980.5	978.1
22.5°	1053.1	1050.7	1045.9	1041.7	1035.1	1032.7	1025.5	1021.3	1018.3	1015.9	1014.7
25°	1105.9	1106.5	1099.9	1094.5	1086.7	1080.1	1071.1	1066.3	1063.3	1060.9	1060.3
27.5°	1171.9	1172.5	1166.5	1158.7	1146.7	1139.5	1127.5	1121.5	1119.7	1117.3	1116.7
30°	1276.3	1270.9	1260.7	1248.1	1237.3	1221.7	1204.3	1198.3	1192.3	1190.5	1190.5
32.5°	1468.3	1465.3	1456.9	1425.7	1411.3	1378.9	1348.3	1330.9	1311.1	1301.5	1295.5
35°	1602.7	1601.5	1594.9	1584.1	1575.1	1568.5	1550.5	1547.5	1543.9	1543.9	1548.7
37.5°	1701.7	1694.5	1693.3	1695.1	1692.7	1693.9	1708.3	1728.1	1744.9	1753.3	1752.1
40°	1848.1	1837.9	1843.9	1839.7	1834.3	1833.1	1837.9	1845.7	1853.5	1853.5	1851.7
42.5°	2039.5	2044.3	2046.7	2029.3	2017.9	2014.9	2026.3	2023.9	2031.7	2028.7	2020.9
45°	2324.0	2321.0	2316.8	2295.8	2277.7	2263.3	2266.3	2262.1	2262.7	2257.9	2251.9
47.5°	2610.8	2621.0	2603.6	2593.4	2573.0	2562.8	2571.2	2564.0	2577.8	2552.6	2540.6
50°	2889.1	2896.4	2890.4	2876.0	2876.0	2890.4	2900.6	2913.8	2933.0	2904.2	2861.0
52.5°	3117.2	3123.2	3132.1	3144.2	3173.6	3204.1	3247.4	3293.6	3330.2	3324.8	3275.6
55°	3256.4	3263.5	3278.6	3320.0	3372.8	3453.2	3551.0	3658.4	3742.4	3783.2	3747.2
57.5°	3303.2	3308.6	3349.4	3399.2	3481.4	3600.8	3764.6	3950.0	4111.5	4214.0	4197.8
60°	3292.4	3292.4	3333.8	3402.2	3517.4	3675.8	3907.4	4164.2	4411.4	4565.0	4542.2
62.5°	3179.0	3185.0	3244.4	3326.6	3465.8	3655.4	3931.4	4259.6	4555.4	4746.2	4727.6
65°	2930.6	2934.8	2999.0	3096.8	3252.2	3476.6	3778.4	4142.0	4481.0	4664.6	4629.8
67.5°	2529.2	2533.4	2585.6	2696.0	2860.4	3095.0	3420.8	3821.0	4152.8	4298.0	4193.6
70°	2011.9	2023.9	2057.5	2174.5	2299.4	2529.1	2829.2	3229.4	3542.6	3680.0	3564.8
72.5°	1371.1	1401.6	1442.4	1546.2	1665.7	1856.5	2095.4	2432.6	2684.0	2843.0	2740.4
75°	772.2	815.4	828.0	906.6	1005.0	1155.6	1330.2	1572.0	1825.9	1954.9	1831.3
77.5°	333.6	369.0	384.6	421.2	498.0	561.0	667.2	830.4	1026.6	1117.2	969.0
80°	164.4	172.8	179.4	190.8	212.4	232.8	283.2	354.6	435.0	455.4	362.4
82.5°	127.2	133.2	144.6	153.6	159.0	164.4	169.2	178.8	186.6	190.8	180.0
85°	89.4	97.2	109.8	120.0	126.0	130.2	134.4	137.4	130.2	118.8	124.8
87.5°	23.4	30.6	42.6	46.2	52.2	55.2	54.0	55.8	50.4	36.6	40.8
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°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	774.6	774.0	774.6	774.6	774.6	774.0	774.0	774.0
5°	788.4	788.4	789.0	787.8	787.8	788.4	787.8	787.2
7.5°	811.8	811.2	811.2	810.6	811.2	810.6	810.6	810.0
10°	843.0	841.8	842.4	840.6	840.6	840.0	840.0	840.0
12.5°	876.6	874.8	875.4	873.6	870.6	871.2	871.8	871.2
15°	909.0	907.2	905.4	904.2	902.4	903.0	903.0	902.4
17.5°	942.0	938.4	937.8	936.0	935.4	935.5	935.5	936.1
20°	976.3	973.9	973.3	971.5	970.9	972.7	973.3	972.1
22.5°	1012.9	1011.7	1012.9	1011.7	1013.5	1014.7	1015.3	1014.1
25°	1059.1	1057.9	1059.7	1063.9	1066.3	1067.5	1070.5	1069.3
27.5°	1118.5	1117.3	1121.5	1127.5	1131.1	1137.1	1140.1	1141.3
30°	1195.3	1200.7	1203.1	1215.1	1217.5	1227.1	1227.1	1231.3
32.5°	1306.9	1317.1	1335.1	1353.7	1379.5	1398.1	1398.1	1407.7
35°	1551.7	1555.9	1569.7	1572.7	1578.1	1584.1	1578.1	1582.9
37.5°	1739.5	1720.9	1707.7	1689.1	1677.7	1677.7	1678.9	1677.7
40°	1835.5	1828.3	1822.3	1806.7	1804.3	1803.7	1803.7	1806.1
42.5°	2007.1	1989.7	1980.1	1966.9	1962.7	1961.5	1960.9	1962.1
45°	2230.3	2202.1	2176.3	2163.1	2151.7	2140.9	2144.5	2144.5
47.5°	2490.1	2446.4	2404.3	2381.5	2361.7	2352.7	2346.7	2344.9
50°	2806.4	2745.1	2691.1	2648.6	2619.8	2619.1	2622.1	2602.9
52.5°	3194.0	3097.4	3030.2	2972.6	2945.5	2942.6	2933.0	2922.2
55°	3623.6	3509.0	3398.0	3336.2	3300.8	3281.6	3270.2	3252.2
57.5°	4066.4	3912.2	3752.6	3653.6	3591.2	3548.0	3525.2	3515.0
60°	4407.8	4197.2	3986.6	3827.6	3723.8	3659.6	3620.0	3603.8
62.5°	4542.2	4256.6	3986.6	3777.8	3627.8	3539.0	3485.6	3462.2
65°	4382.0	4043.6	3736.4	3506.0	3338.6	3239.6	3181.4	3156.2
67.5°	3934.4	3635.6	3301.4	3072.2	2900.0	2802.2	2739.1	2720.5
70°	3298.4	2993.0	2673.7	2469.1	2315.5	2235.7	2170.3	2162.5
72.5°	2478.7	2215.3	1941.7	1772.5	1648.9	1516.9	1483.3	1500.1
75°	1588.9	1342.3	1098.6	946.2	833.4	707.4	658.8	670.8
77.5°	752.4	582.6	420.6	325.2	273.0	233.4	223.2	217.2
80°	279.0	226.2	199.8	189.6	182.4	175.8	171.0	165.6
82.5°	180.6	176.4	171.0	169.2	163.8	155.4	139.8	133.2
85°	135.0	135.0	127.8	128.4	124.2	113.4	99.0	91.2
87.5°	39.6	35.4	32.4	30.0	29.4	26.4	19.2	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)