

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: P180231

Luminaire Tested: **ICS-F02-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180231
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-5XQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3988.8 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

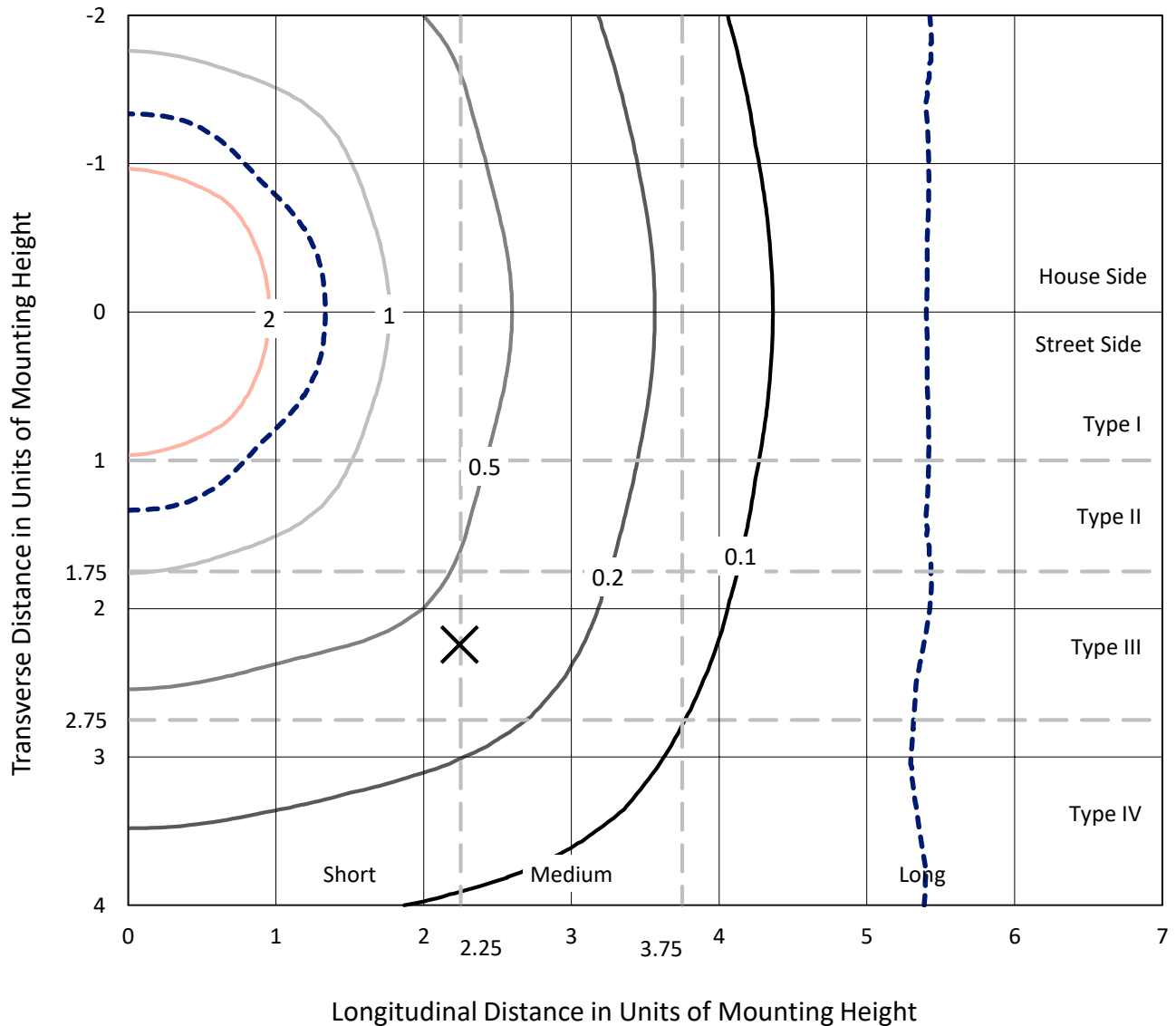
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

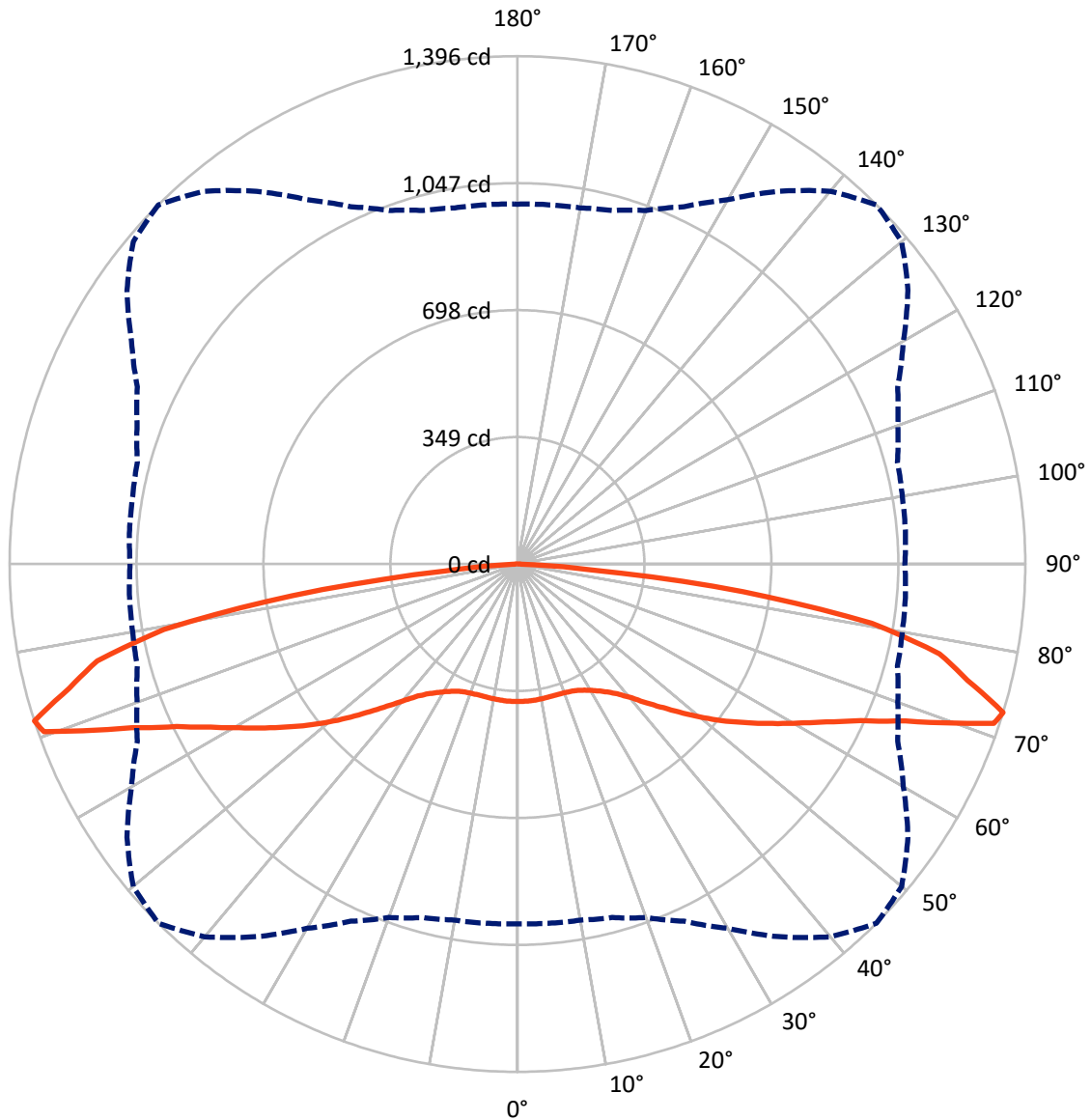
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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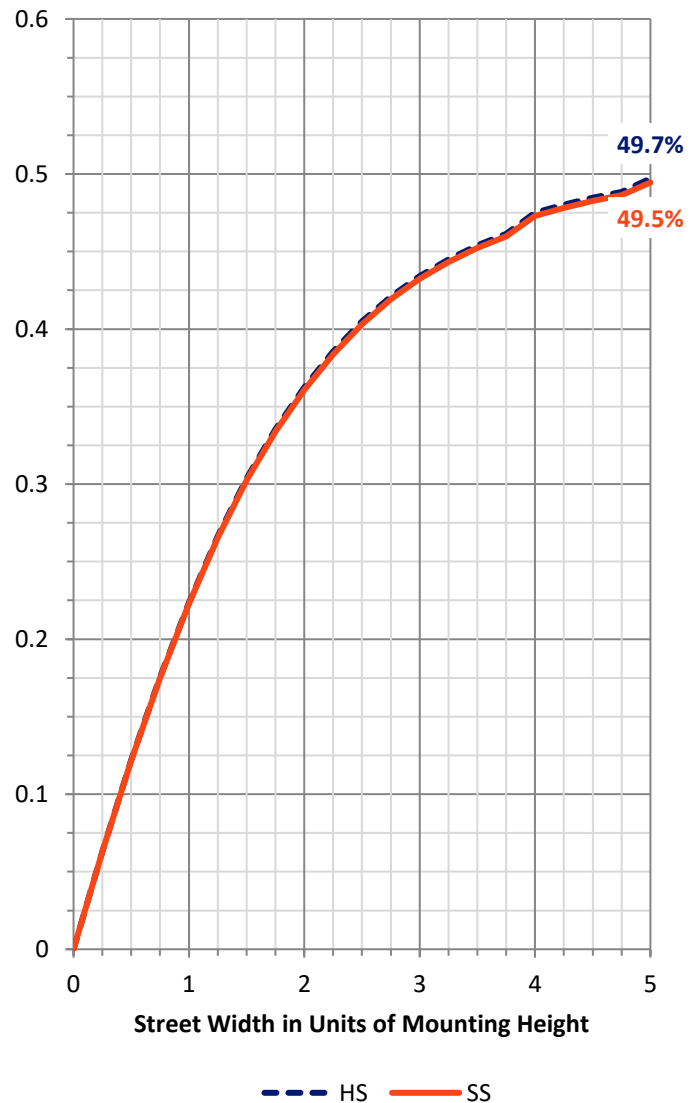
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.4	0.0	1994.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1994.4	0.0	1994.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3988.8	0.0	3988.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	0.9
10°-20°	106.5	2.7
20°-30°	178.4	4.5
30°-40°	272.0	6.8
40°-50°	434.3	10.9
50°-60°	667.8	16.7
60°-70°	972.3	24.4
70°-80°	1095.3	27.5
80°-90°	226.1	5.7
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°	3988.8	100.0
0°-180°	3988.8	100.0

Coefficient of Utilization



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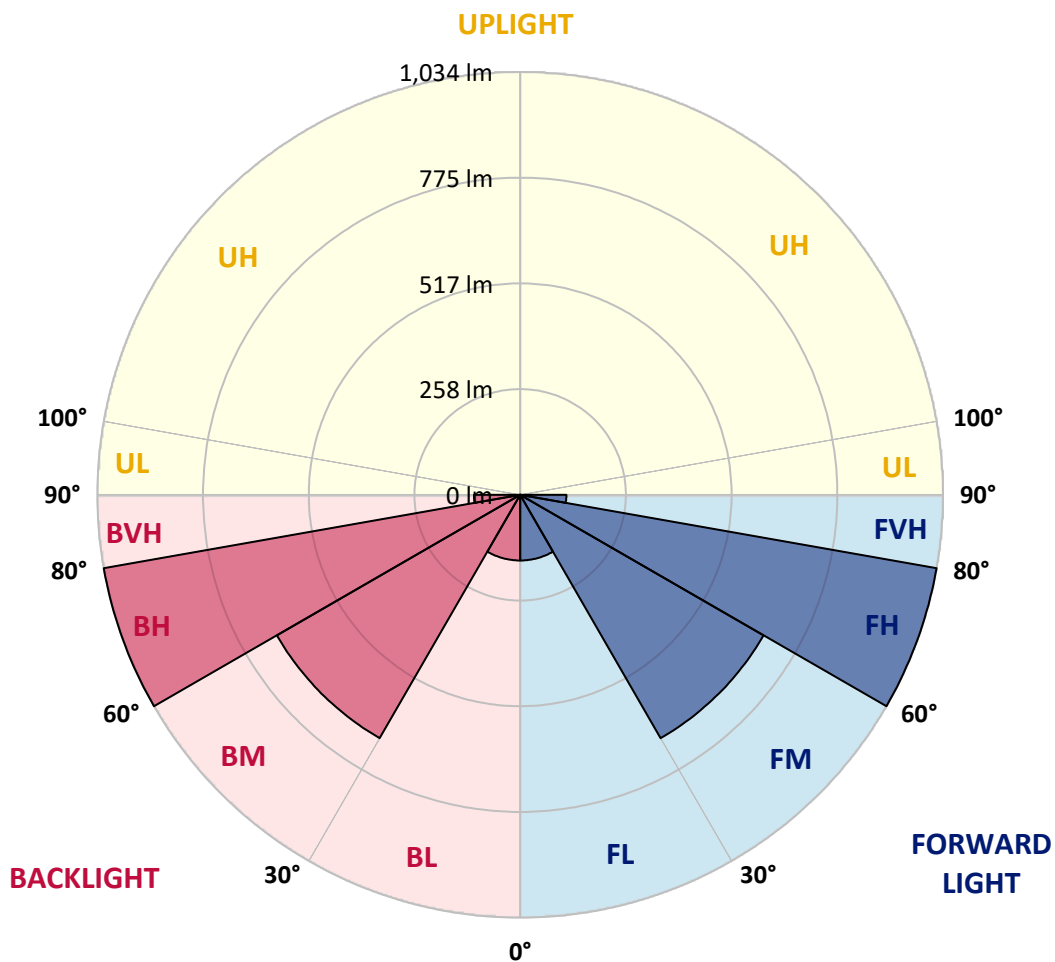
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.5	4.0			
FM (30°-60°)	687.1	17.2			
FH (60°-80°)	1033.8	25.9			G1/1800
FVH (80°-90°)	113.1	2.8			G2/225
BL (0°-30°)	160.5	4.0	B1/500		
BM (30°-60°)	687.1	17.2	B1/1000		
BH (60°-80°)	1033.8	25.9	B3/2500		G1/1800
BVH (80°-90°)	113.1	2.8			G2/225
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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	378.6	378.8	378.7	378.5	378.6	378.4	378.2	378.1	377.4	377.8	378.4
5°	378.5	378.4	378.2	378.1	378.2	378.4	378.1	377.8	377.7	377.9	377.6
7.5°	378.3	377.9	377.7	377.6	377.7	377.8	377.5	377.1	377.4	377.1	376.6
10°	377.8	377.4	377.5	377.1	377.2	377.1	376.7	376.4	376.5	376.2	375.8
12.5°	378.0	377.4	377.3	377.1	377.0	376.9	376.4	375.8	376.0	375.8	375.2
15°	378.0	377.6	377.5	377.1	377.0	376.8	376.2	376.0	376.0	375.6	375.0
17.5°	378.2	377.9	377.9	377.4	377.2	377.1	376.4	376.1	376.4	375.8	375.3
20°	378.8	378.5	378.6	378.3	377.9	377.9	377.4	377.2	377.3	377.2	376.0
22.5°	380.0	380.0	380.2	380.1	380.0	380.1	379.7	379.7	379.8	379.8	378.8
25°	383.6	383.5	383.7	383.6	383.8	384.5	384.2	384.1	384.6	384.6	383.7
27.5°	390.2	390.0	390.2	390.4	391.0	391.9	391.7	392.1	392.9	392.7	391.8
30°	398.0	397.8	398.3	398.9	399.4	400.8	400.2	401.8	402.5	403.1	402.5
32.5°	409.3	409.3	410.2	410.6	411.6	413.1	413.2	414.5	415.4	416.5	415.8
35°	424.4	424.1	424.8	425.6	426.7	428.1	428.6	430.3	431.8	432.5	431.2
37.5°	447.4	446.2	447.6	448.0	448.9	449.2	450.6	452.8	454.3	454.2	453.2
40°	478.5	478.2	477.8	477.1	478.6	479.1	479.1	481.9	484.4	484.0	483.9
42.5°	514.8	513.9	513.3	513.3	514.1	514.3	517.6	519.6	521.4	521.9	521.4
45°	553.9	553.0	553.2	552.8	553.1	554.5	556.3	560.2	563.6	563.7	561.9
47.5°	596.0	593.0	595.3	592.1	594.1	595.1	599.8	605.4	611.3	612.3	610.8
50°	638.6	638.3	638.1	637.4	638.4	640.7	646.4	655.3	661.0	664.7	662.2
52.5°	685.2	683.6	682.9	681.8	682.8	687.3	695.3	703.1	713.2	717.5	714.0
55°	730.6	730.1	727.4	727.2	729.2	736.2	745.0	754.5	765.5	770.3	769.0
57.5°	777.2	774.2	773.3	772.0	776.0	782.6	793.4	810.5	821.9	827.4	824.2
60°	822.8	820.5	818.7	818.3	821.0	830.2	845.6	866.2	880.4	887.4	882.4
62.5°	871.6	870.2	868.1	865.7	871.5	883.2	902.5	925.3	946.1	954.8	947.2
65°	932.5	929.4	927.2	924.2	928.8	943.7	967.8	999.9	1027.8	1038.0	1032.6
67.5°	996.6	993.8	994.0	992.2	1000.6	1021.1	1052.3	1095.8	1133.3	1150.7	1140.5
70°	1052.7	1054.2	1054.7	1062.3	1076.8	1108.1	1159.9	1228.2	1284.9	1311.6	1300.6
71°	1036.2	1039.6	1044.9	1052.9	1077.8	1114.9	1185.6	1268.3	1336.0	1381.2	1366.0
72.5°	989.4	991.4	994.2	1006.3	1034.4	1083.5	1156.4	1250.8	1337.9	1396.3	1378.8
75°	921.6	923.6	924.6	933.0	958.6	1001.4	1068.1	1152.0	1228.8	1278.6	1273.6
77.5°	819.4	819.7	827.0	840.1	868.8	917.8	988.1	1075.1	1147.3	1186.0	1161.4
80°	588.4	584.4	592.0	608.8	644.4	700.6	772.5	871.8	951.9	988.1	950.1
82.5°	223.8	236.0	255.1	282.9	295.0	357.4	424.6	482.8	550.4	625.8	606.9
85°	24.0	27.1	33.9	42.1	53.2	73.6	101.7	138.8	171.1	201.1	178.5
87.5°	9.0	9.2	10.2	11.8	12.0	12.5	13.4	15.6	14.6	12.5	10.1
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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	377.9	378.0	377.9	378.0	378.0	377.6	377.7	377.5
5°	377.8	377.5	377.6	377.7	377.6	377.8	377.5	377.8
7.5°	377.3	376.6	376.9	376.9	376.7	377.0	376.8	376.6
10°	376.2	375.4	375.8	375.6	375.5	375.6	375.6	375.6
12.5°	375.3	374.8	374.9	374.8	374.7	375.0	374.9	375.0
15°	375.1	374.2	374.2	374.0	374.1	374.3	374.3	374.6
17.5°	374.9	373.8	373.8	373.5	373.6	374.1	374.2	374.0
20°	375.5	374.7	374.5	374.2	374.2	374.7	374.6	374.6
22.5°	378.4	377.4	377.3	376.5	376.1	376.5	376.2	376.2
25°	383.2	381.9	381.5	380.4	379.5	379.5	379.2	379.0
27.5°	391.7	389.7	389.3	388.4	387.2	387.4	386.8	386.7
30°	401.4	399.8	398.3	397.0	395.6	395.1	394.3	394.2
32.5°	414.3	412.4	410.6	409.0	407.1	406.4	405.1	404.4
35°	430.1	427.6	425.5	424.3	422.4	421.5	420.7	421.6
37.5°	452.1	449.1	448.1	446.7	445.5	444.0	444.3	444.0
40°	482.6	479.9	478.9	476.5	476.2	474.5	475.6	474.5
42.5°	520.4	515.4	514.7	512.8	512.1	511.2	511.6	510.8
45°	561.4	557.0	556.2	553.1	553.2	551.0	551.8	551.8
47.5°	607.7	603.0	599.1	596.9	596.0	594.7	595.4	595.3
50°	655.3	649.0	644.6	640.4	638.5	639.0	637.6	640.0
52.5°	706.5	697.0	691.0	686.9	683.3	684.1	684.3	685.0
55°	759.5	747.4	738.6	733.3	730.1	730.2	731.2	732.0
57.5°	812.8	797.7	785.7	777.8	775.7	776.6	776.7	776.6
60°	868.1	849.9	834.6	825.6	823.7	823.2	827.2	825.9
62.5°	927.5	905.6	889.8	878.2	875.6	877.4	881.0	880.2
65°	1006.2	976.0	955.5	944.1	939.5	941.4	946.3	946.1
67.5°	1107.6	1065.4	1038.4	1023.7	1020.4	1022.7	1025.4	1028.0
70°	1259.4	1199.1	1160.4	1128.8	1115.2	1112.6	1115.3	1115.4
71°	1312.8	1243.5	1182.0	1143.3	1121.0	1111.6	1112.4	1107.6
72.5°	1310.6	1225.2	1153.2	1112.8	1081.9	1074.3	1070.6	1065.1
75°	1222.3	1145.4	1082.9	1038.8	1009.0	1000.1	993.6	993.3
77.5°	1108.5	1051.8	982.9	936.2	899.9	885.2	878.6	878.4
80°	891.1	806.1	755.8	727.6	683.8	671.2	657.8	652.8
82.5°	538.9	421.1	342.4	304.2	283.1	233.2	209.3	198.0
85°	125.5	89.1	61.4	40.4	29.0	23.1	17.8	15.7
87.5°	8.5	6.7	5.9	4.8	3.7	3.6	2.2	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)