

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: P140261

Luminaire Tested: **ECM-E01-LED-E1-5MQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140261
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-5MQ-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

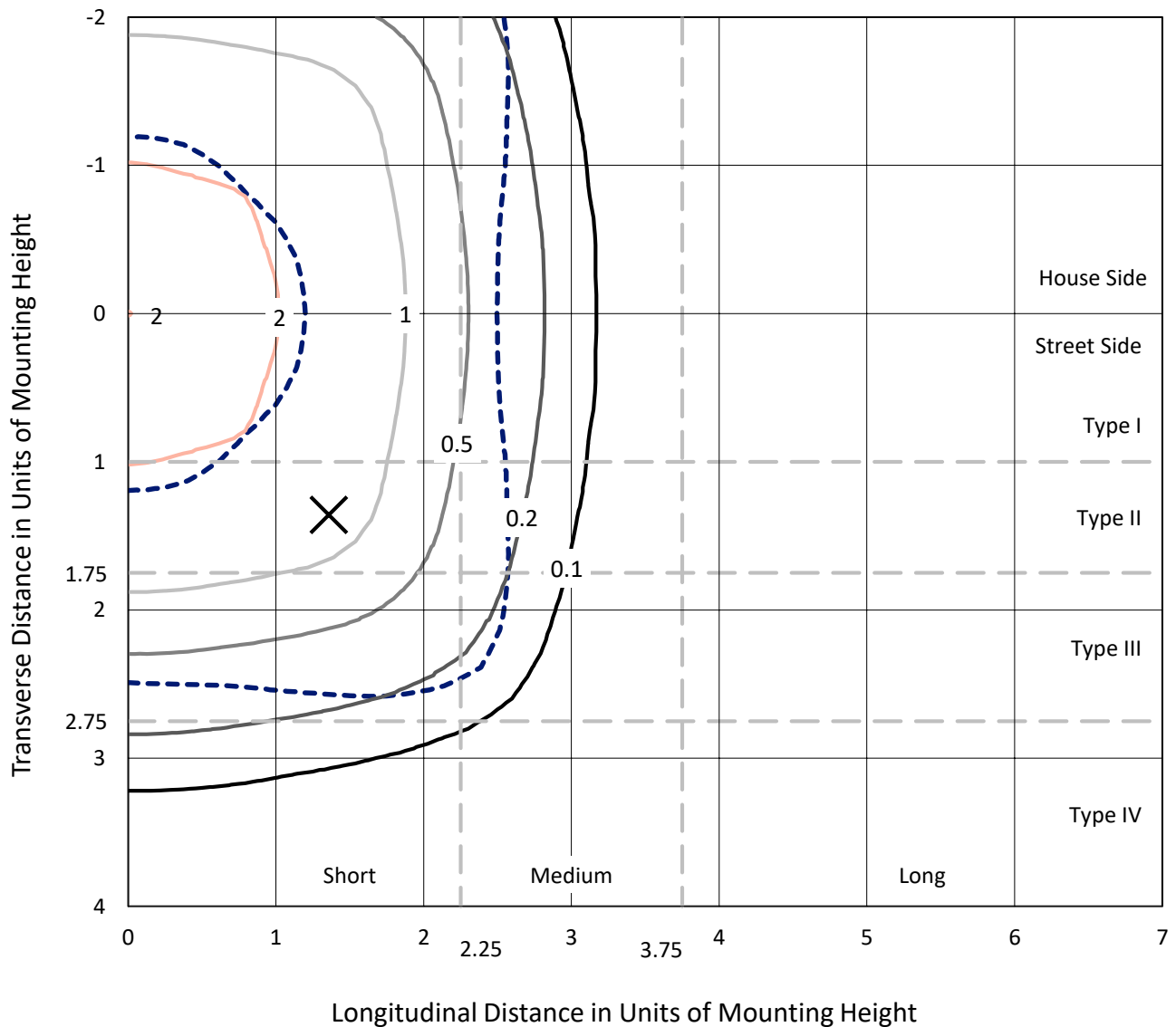
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

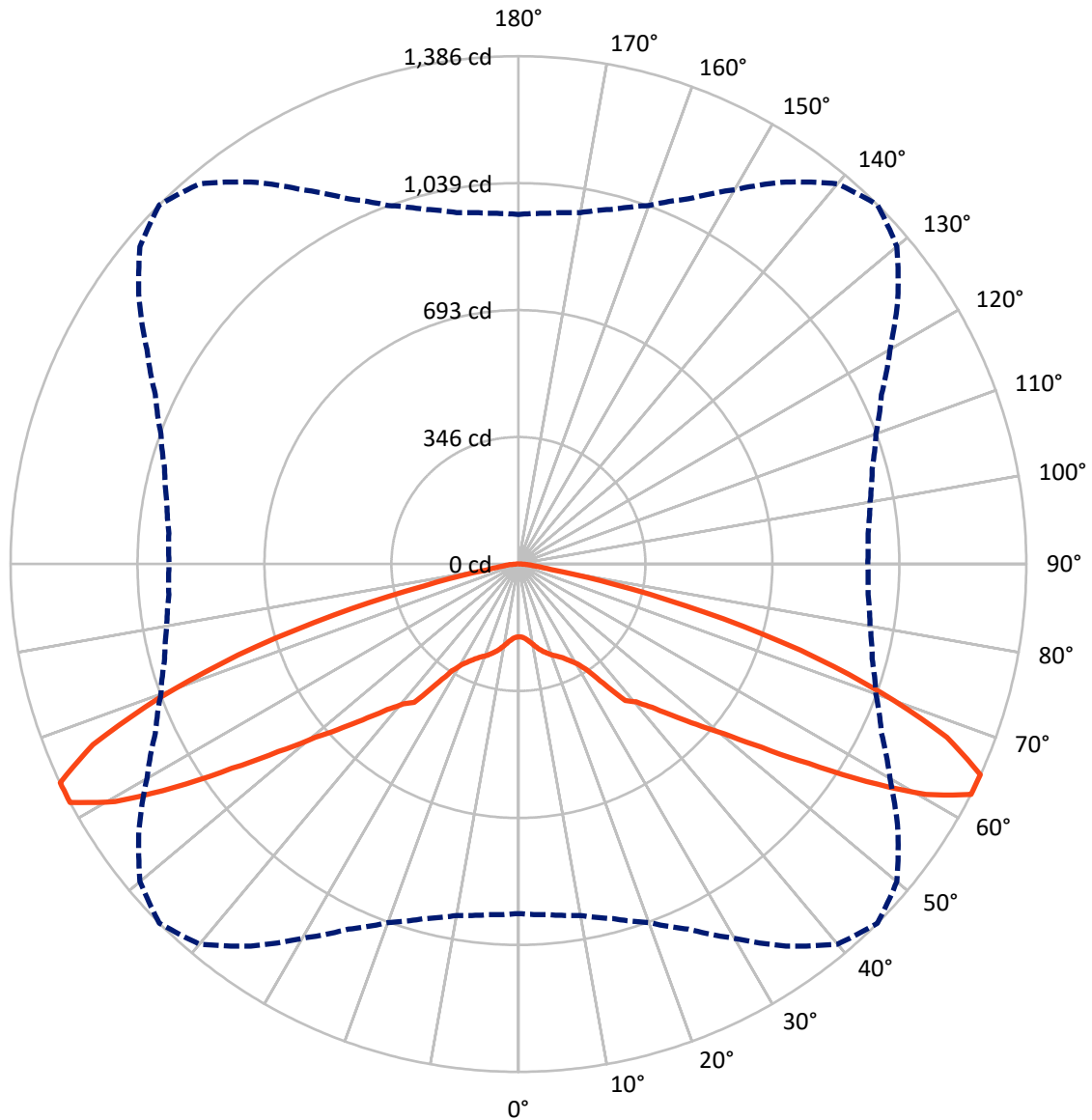
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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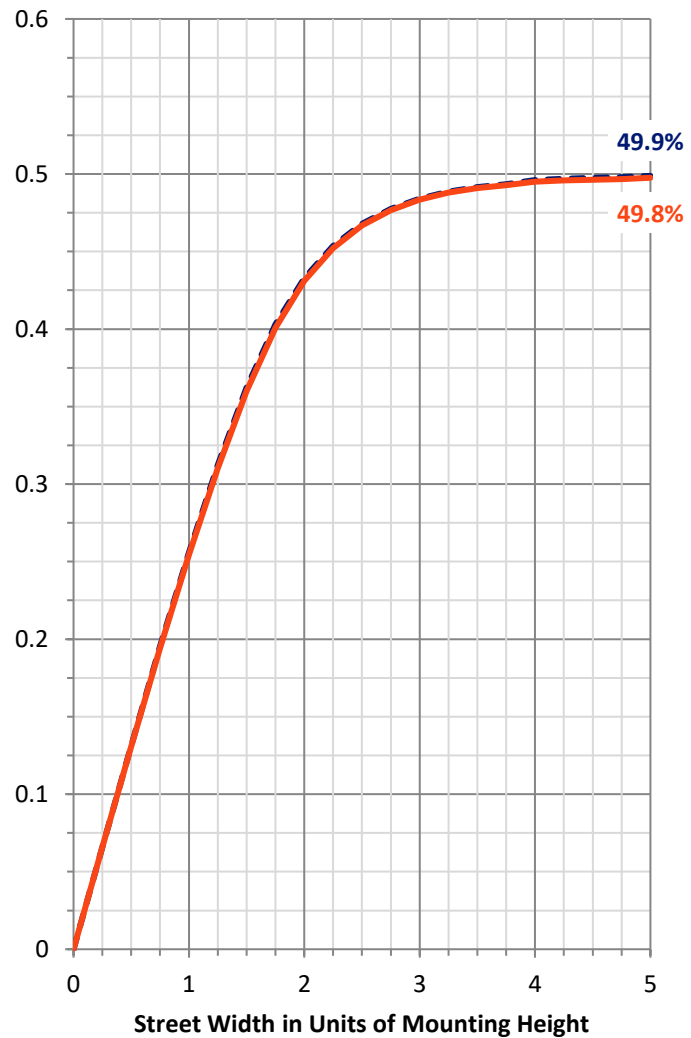
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.8	0.0	1566.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1566.8	0.0	1566.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	3133.5	0.0	3133.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	0.6
10°-20°	70.4	2.2
20°-30°	135.3	4.3
30°-40°	260.2	8.3
40°-50°	452.8	14.5
50°-60°	813.4	26.0
60°-70°	997.1	31.8
70°-80°	351.6	11.2
80°-90°	32.5	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°	3133.5	100.0
0°-180°	3133.5	100.0



--- HS — SS

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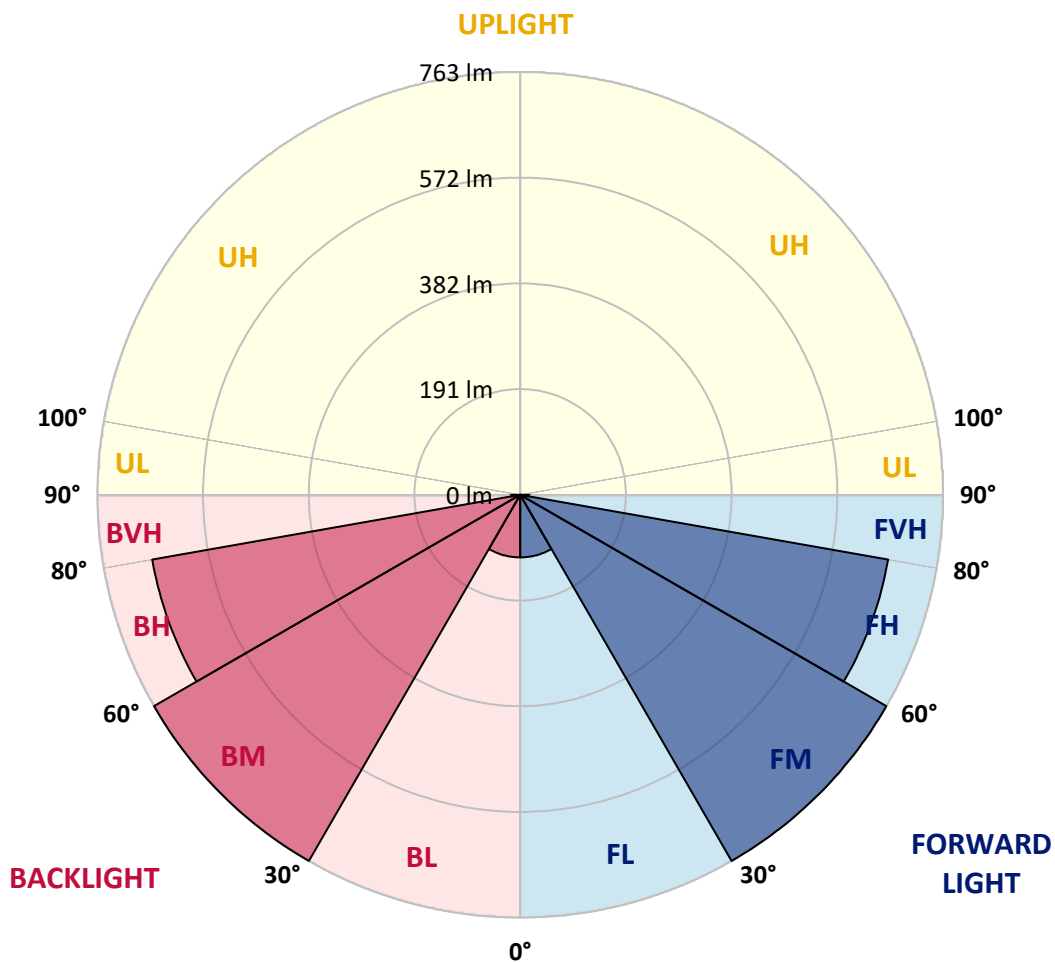
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.9	3.6			
FM (30°-60°)	763.2	24.4			
FH (60°-80°)	674.4	21.5			G1/1800
FVH (80°-90°)	16.3	0.5			G1/100
BL (0°-30°)	112.9	3.6	B1/500		
BM (30°-60°)	763.2	24.4	B1/1000		
BH (60°-80°)	674.4	21.5	B2/1000		G1/1800
BVH (80°-90°)	16.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7
2.5°	201.1	201.1	200.8	200.4	200.4	200.4	200.1	200.1	200.4	199.7	199.7
5°	206.2	206.6	206.2	205.9	205.6	205.6	205.2	205.2	205.6	204.9	204.5
7.5°	215.8	216.2	215.5	215.1	214.8	214.5	214.1	213.8	214.1	213.1	213.1
10°	228.1	228.1	228.1	226.8	226.8	225.7	225.4	224.7	225.1	224.0	224.0
12.5°	240.5	240.5	240.1	239.4	239.1	238.4	237.7	237.7	237.0	235.7	235.0
15°	251.4	251.7	251.4	250.4	250.0	249.0	249.0	248.3	247.3	246.6	245.9
17.5°	261.7	262.0	261.0	260.6	259.6	258.9	258.2	257.9	257.2	256.2	255.8
20°	271.6	271.2	270.2	268.8	268.2	267.5	266.8	266.4	266.1	265.4	265.4
22.5°	281.2	281.2	280.1	278.1	276.7	276.0	275.0	274.3	273.6	273.3	274.0
25°	295.5	295.2	293.1	291.1	288.7	286.6	285.3	284.9	284.2	284.2	284.6
27.5°	314.0	313.3	310.2	307.5	304.8	302.0	300.3	298.9	298.6	298.3	298.3
30°	337.2	336.2	333.5	330.1	327.0	323.6	320.1	319.1	317.4	316.0	318.4
32.5°	381.7	382.4	376.9	370.1	363.2	356.7	350.9	346.5	343.7	344.1	344.1
35°	430.6	431.0	428.6	425.8	423.8	420.0	413.5	408.0	403.9	399.5	401.5
37.5°	451.8	452.2	450.1	449.8	451.1	453.5	460.0	464.8	472.0	473.0	471.0
40°	489.1	487.4	484.7	484.0	483.0	486.4	489.1	491.5	492.5	494.6	492.5
42.5°	528.1	527.4	525.4	523.0	523.0	523.7	528.1	531.9	534.3	534.6	534.3
45°	571.9	570.9	569.1	568.8	569.8	572.9	576.0	580.8	588.3	588.6	588.3
47.5°	620.1	620.8	618.1	619.1	620.8	625.9	634.5	642.3	650.6	653.6	649.9
50°	686.1	683.7	683.7	682.7	687.1	694.7	704.9	714.2	725.8	728.5	722.7
52.5°	775.7	770.6	771.6	768.9	771.3	778.1	794.9	809.3	824.0	831.1	819.9
55°	883.5	874.9	876.0	878.7	880.7	892.4	913.6	930.0	957.7	960.1	947.1
57.5°	971.7	969.3	970.7	977.2	990.2	1010.4	1037.1	1076.7	1110.9	1119.1	1105.1
60°	1003.9	1005.6	1015.2	1032.3	1056.9	1092.8	1144.8	1206.7	1261.1	1277.5	1256.3
62.5°	953.9	960.8	973.8	1002.2	1041.2	1099.6	1179.3	1272.7	1354.1	1385.9	1348.0
65°	856.5	860.9	882.1	906.4	956.7	1023.7	1121.5	1243.0	1343.2	1385.2	1342.8
67.5°	728.5	737.1	755.6	785.7	829.1	897.2	999.8	1123.9	1224.5	1261.4	1224.1
70°	584.9	588.6	600.3	623.9	669.0	729.2	817.1	928.3	1026.1	1049.4	1019.6
72.5°	405.7	413.2	423.1	444.6	473.0	524.0	596.5	678.3	756.9	805.2	761.4
75°	174.8	164.9	186.8	208.3	243.2	290.4	347.2	414.2	492.2	524.3	481.2
77.5°	52.3	52.0	55.4	61.6	73.9	97.8	137.2	182.3	242.5	263.4	226.1
80°	42.8	44.1	45.5	46.9	48.2	49.9	53.0	61.9	75.9	89.6	72.9
82.5°	36.3	38.0	41.7	43.8	44.8	45.1	45.1	44.8	43.1	42.4	42.1
85°	27.4	30.1	35.2	38.3	38.3	38.3	38.3	37.3	34.9	30.8	34.2
87.5°	9.2	12.3	20.5	21.9	22.6	20.9	21.9	22.2	18.5	14.0	17.8
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°	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7
2.5°	199.7	199.7	199.7	200.1	199.7	199.7	199.7	199.7
5°	204.9	204.5	204.9	204.5	204.9	204.9	204.5	204.9
7.5°	212.7	212.7	213.1	213.1	212.7	212.7	212.7	212.7
10°	223.3	222.7	223.0	223.0	223.0	222.7	222.7	222.3
12.5°	234.3	233.6	233.6	233.6	233.6	233.3	233.6	233.6
15°	244.6	243.9	243.2	243.2	243.5	243.9	243.9	243.5
17.5°	254.5	253.8	252.8	252.8	252.4	253.1	253.8	253.4
20°	264.4	264.1	262.3	262.3	262.3	263.0	263.4	264.4
22.5°	274.3	274.0	272.6	272.3	272.6	274.0	275.0	275.0
25°	284.9	285.6	285.3	285.3	285.9	288.0	289.0	290.4
27.5°	300.0	301.3	301.7	303.0	303.4	305.8	307.5	309.5
30°	319.5	321.9	323.2	325.6	327.3	328.7	331.1	332.8
32.5°	346.5	352.3	359.1	367.0	370.4	376.6	379.3	380.0
35°	408.7	414.9	420.7	424.1	422.8	424.5	424.5	425.8
37.5°	464.8	458.7	453.5	452.5	449.8	448.8	449.1	450.1
40°	490.8	487.7	485.7	486.7	485.3	484.3	485.0	485.3
42.5°	532.9	528.1	526.4	526.1	525.4	526.1	527.8	527.1
45°	582.1	576.0	573.6	573.3	572.2	571.9	572.6	573.9
47.5°	641.3	633.8	626.3	623.9	623.9	621.8	623.2	621.1
50°	713.8	701.5	693.6	689.2	686.5	683.4	686.1	681.7
52.5°	809.3	791.8	783.3	777.4	769.6	769.9	770.6	768.9
55°	929.7	910.5	893.7	882.5	877.7	874.9	874.2	879.7
57.5°	1068.2	1034.3	1007.6	987.8	980.3	970.0	965.2	965.2
60°	1199.9	1138.3	1085.3	1052.1	1027.5	1010.0	998.4	995.0
62.5°	1264.2	1170.8	1093.1	1038.4	999.4	974.5	957.7	953.3
65°	1236.5	1117.8	1026.4	964.9	919.7	887.6	868.1	862.6
67.5°	1125.0	1000.8	904.7	842.8	794.2	759.3	744.6	738.5
70°	934.1	820.2	736.7	676.2	625.6	596.2	576.0	567.8
72.5°	671.4	584.9	508.3	456.3	410.8	395.4	368.0	365.3
75°	396.8	321.5	258.2	218.6	177.9	155.6	143.0	129.3
77.5°	161.4	115.3	86.5	65.3	56.1	51.0	48.6	47.9
80°	55.1	49.3	46.5	45.5	44.1	43.4	41.7	40.4
82.5°	43.4	43.1	41.7	41.4	40.0	38.0	34.5	32.5
85°	36.3	35.6	33.9	33.5	32.5	29.8	26.0	23.6
87.5°	20.5	18.8	17.1	17.4	16.4	14.4	10.6	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)