

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: P140258

Luminaire Tested: **ECM-E01-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140258
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-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) 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: 2577.3 lumens
Efficiency: N/A
Efficacy: 104.3 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

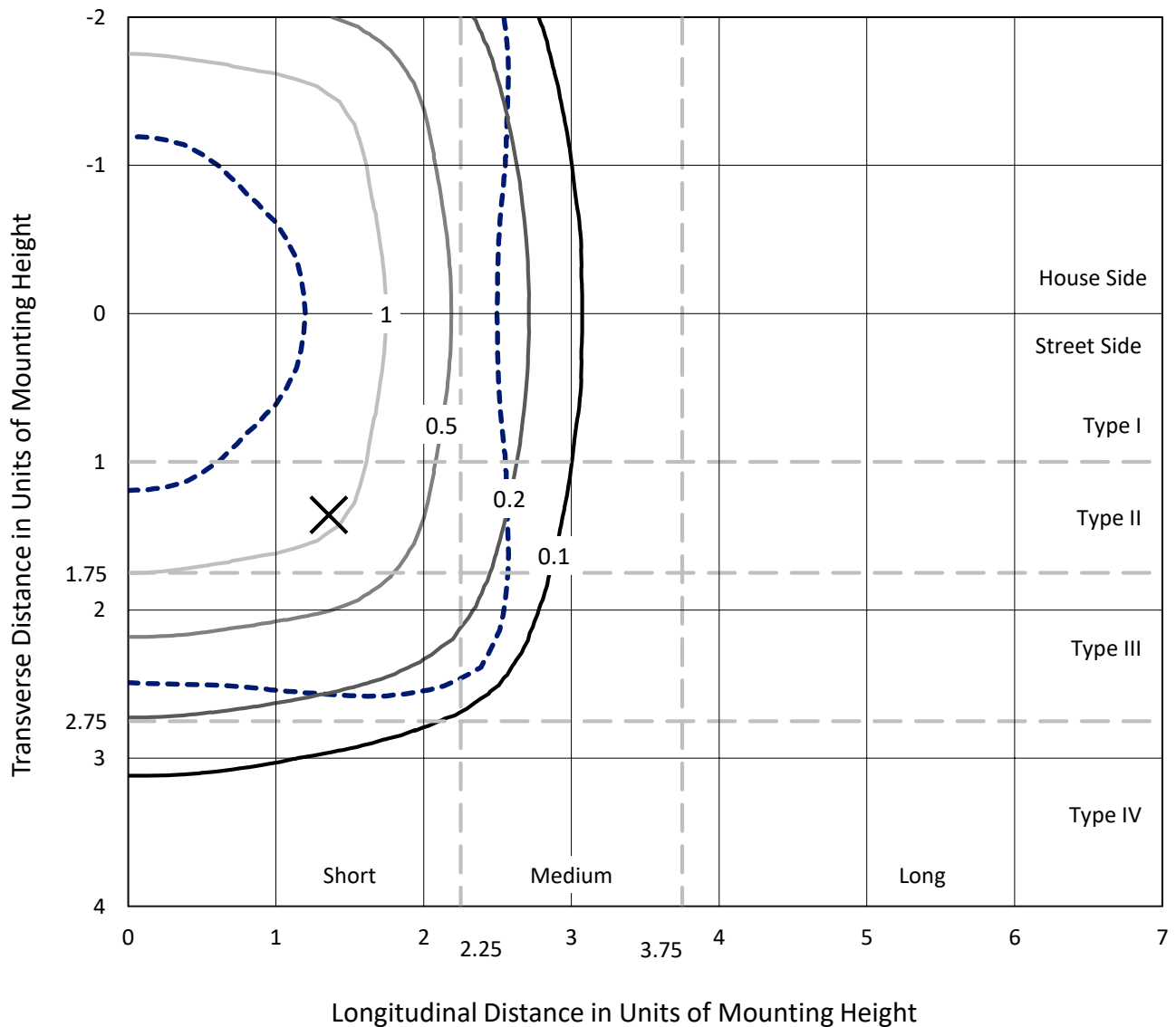
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

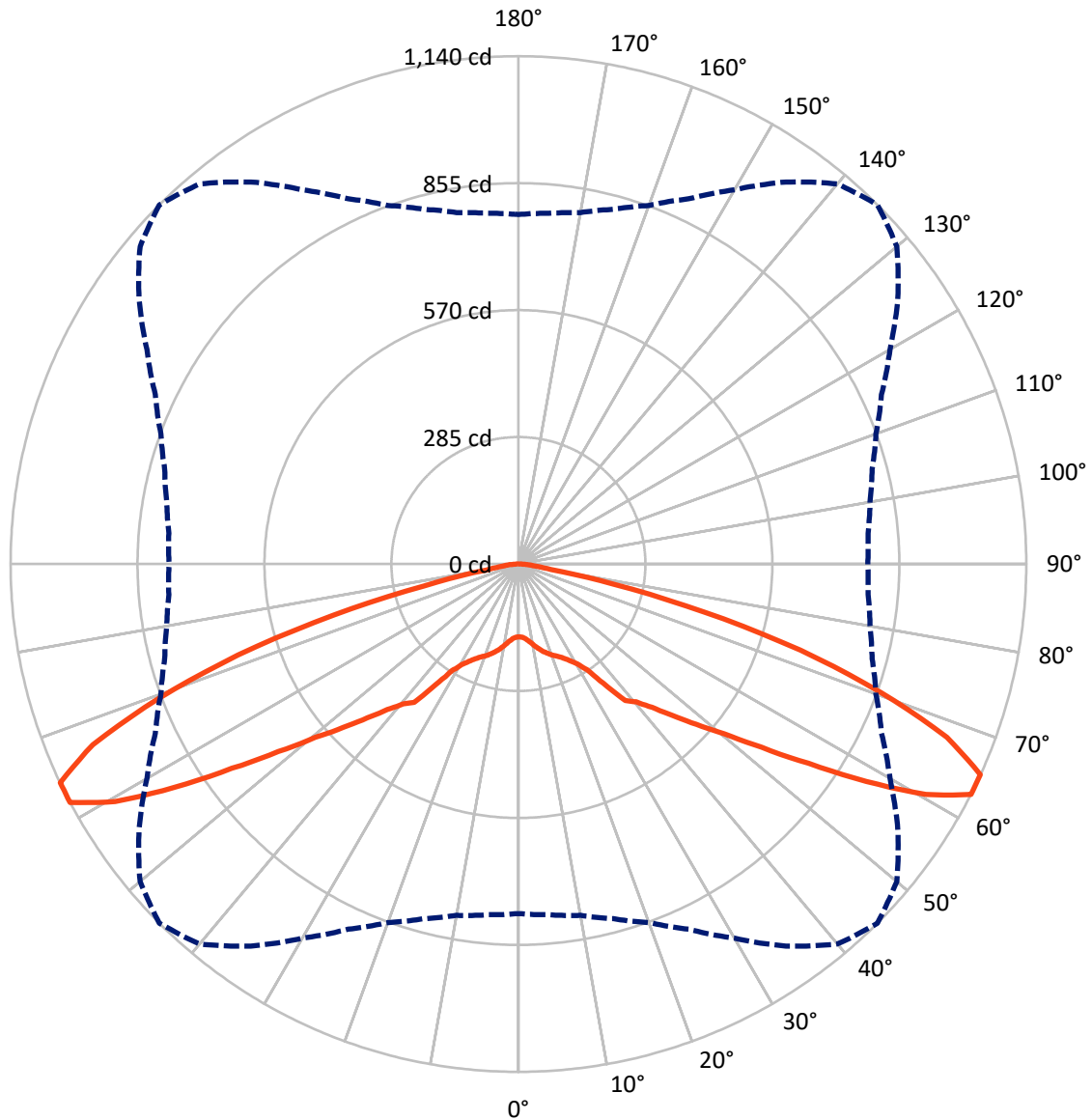
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 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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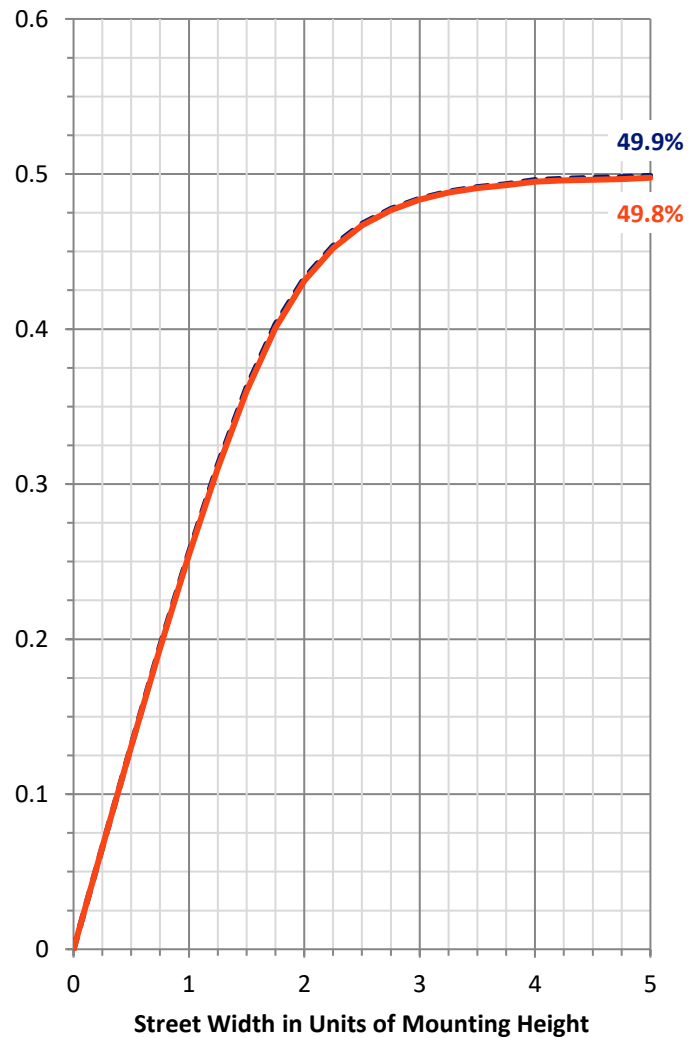
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1288.7	0.0	1288.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1288.7	0.0	1288.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	2577.3	0.0	2577.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	0.6
10°-20°	57.9	2.2
20°-30°	111.2	4.3
30°-40°	214.0	8.3
40°-50°	372.5	14.5
50°-60°	669.0	26.0
60°-70°	820.1	31.8
70°-80°	289.2	11.2
80°-90°	26.7	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°	2577.3	100.0
0°-180°	2577.3	100.0



--- HS — SS

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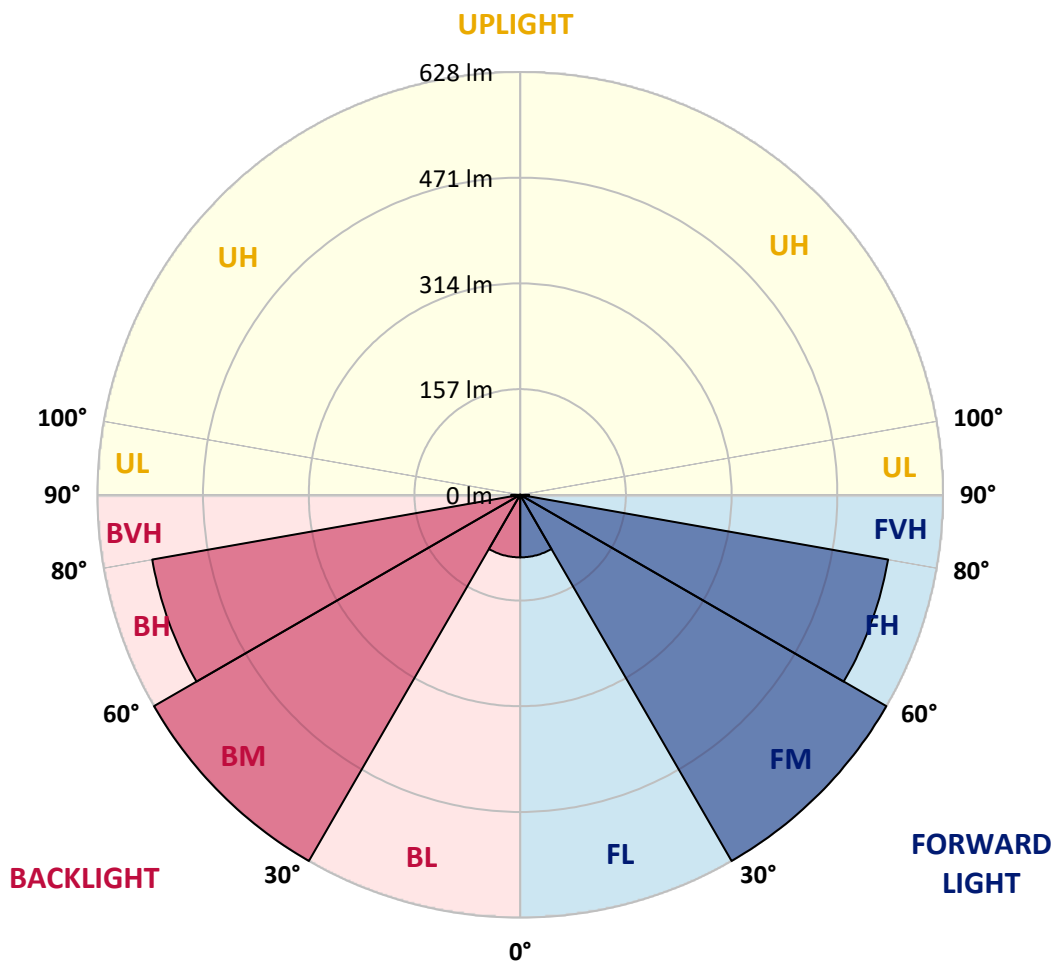
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.9	3.6			
FM (30°-60°)	627.7	24.4			
FH (60°-80°)	554.7	21.5			G0/660
FVH (80°-90°)	13.4	0.5			G1/100
BL (0°-30°)	92.9	3.6	B0/110		
BM (30°-60°)	627.7	24.4	B1/1000		
BH (60°-80°)	554.7	21.5	B2/1000		G0/660
BVH (80°-90°)	13.4	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°	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5
2.5°	165.4	165.4	165.1	164.9	164.9	164.9	164.6	164.6	164.9	164.3	164.3
5°	169.6	169.9	169.6	169.4	169.1	169.1	168.8	168.8	169.1	168.5	168.2
7.5°	177.5	177.8	177.2	177.0	176.7	176.4	176.1	175.8	176.1	175.3	175.3
10°	187.6	187.6	187.6	186.5	186.5	185.7	185.4	184.8	185.1	184.3	184.3
12.5°	197.8	197.8	197.5	196.9	196.6	196.1	195.5	195.5	195.0	193.8	193.3
15°	206.8	207.1	206.8	205.9	205.7	204.8	204.8	204.2	203.4	202.8	202.3
17.5°	215.2	215.5	214.7	214.4	213.5	213.0	212.4	212.1	211.6	210.7	210.4
20°	223.4	223.1	222.3	221.1	220.6	220.0	219.4	219.2	218.9	218.3	218.3
22.5°	231.3	231.3	230.4	228.7	227.6	227.0	226.2	225.6	225.1	224.8	225.3
25°	243.1	242.8	241.1	239.4	237.4	235.8	234.6	234.3	233.8	233.8	234.1
27.5°	258.3	257.7	255.2	252.9	250.7	248.4	247.0	245.9	245.6	245.3	245.3
30°	277.4	276.5	274.3	271.5	269.0	266.1	263.3	262.5	261.1	259.9	261.9
32.5°	314.0	314.5	310.0	304.4	298.8	293.4	288.6	285.0	282.7	283.0	283.0
35°	354.2	354.5	352.5	350.3	348.6	345.5	340.1	335.6	332.3	328.6	330.3
37.5°	371.6	371.9	370.2	369.9	371.1	373.0	378.4	382.3	388.2	389.1	387.4
40°	402.3	400.9	398.6	398.1	397.2	400.1	402.3	404.3	405.1	406.8	405.1
42.5°	434.4	433.8	432.1	430.2	430.2	430.7	434.4	437.5	439.4	439.7	439.4
45°	470.4	469.5	468.1	467.9	468.7	471.2	473.8	477.7	483.9	484.2	483.9
47.5°	510.1	510.6	508.4	509.2	510.6	514.8	521.9	528.3	535.1	537.6	534.5
50°	564.3	562.4	562.4	561.5	565.2	571.4	579.8	587.4	597.0	599.2	594.5
52.5°	638.1	633.8	634.7	632.4	634.4	640.0	653.8	665.6	677.7	683.6	674.3
55°	726.7	719.6	720.5	722.7	724.4	734.0	751.4	764.9	787.7	789.7	779.0
57.5°	799.3	797.3	798.4	803.8	814.5	831.0	853.0	885.6	913.8	920.5	909.0
60°	825.7	827.1	835.0	849.1	869.3	898.9	941.6	992.5	1037.3	1050.8	1033.3
62.5°	784.6	790.3	800.9	824.3	856.4	904.5	970.0	1046.8	1113.8	1140.0	1108.7
65°	704.5	708.1	725.6	745.5	786.9	842.0	922.5	1022.4	1104.8	1139.4	1104.5
67.5°	599.2	606.3	621.5	646.2	681.9	737.9	822.3	924.5	1007.2	1037.5	1006.9
70°	481.1	484.2	493.7	513.1	550.3	599.8	672.1	763.5	844.0	863.1	838.6
72.5°	333.7	339.8	348.0	365.7	389.1	431.0	490.6	557.9	622.6	662.3	626.2
75°	143.8	135.6	153.6	171.3	200.0	238.8	285.6	340.7	404.8	431.3	395.8
77.5°	43.0	42.8	45.6	50.6	60.8	80.5	112.8	149.9	199.5	216.6	186.0
80°	35.2	36.3	37.4	38.5	39.7	41.1	43.6	50.9	62.5	73.7	59.9
82.5°	29.8	31.2	34.3	36.0	36.9	37.1	37.1	36.9	35.4	34.9	34.6
85°	22.5	24.8	29.0	31.5	31.5	31.5	31.5	30.7	28.7	25.3	28.1
87.5°	7.6	10.1	16.9	18.0	18.6	17.2	18.0	18.3	15.2	11.5	14.6
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°	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5
2.5°	164.3	164.3	164.3	164.6	164.3	164.3	164.3	164.3
5°	168.5	168.2	168.5	168.2	168.5	168.5	168.2	168.5
7.5°	175.0	175.0	175.3	175.3	175.0	175.0	175.0	175.0
10°	183.7	183.1	183.4	183.4	183.4	183.1	183.1	182.9
12.5°	192.7	192.1	192.1	192.1	192.1	191.9	192.1	192.1
15°	201.2	200.6	200.0	200.0	200.3	200.6	200.6	200.3
17.5°	209.3	208.7	207.9	207.9	207.6	208.2	208.7	208.5
20°	217.5	217.2	215.8	215.8	215.8	216.3	216.6	217.5
22.5°	225.6	225.3	224.2	223.9	224.2	225.3	226.2	226.2
25°	234.3	234.9	234.6	234.6	235.2	236.9	237.7	238.8
27.5°	246.7	247.9	248.1	249.3	249.5	251.5	252.9	254.6
30°	262.8	264.7	265.9	267.8	269.2	270.4	272.3	273.7
32.5°	285.0	289.8	295.4	301.9	304.7	309.7	312.0	312.6
35°	336.2	341.3	346.0	348.8	347.7	349.1	349.1	350.3
37.5°	382.3	377.3	373.0	372.2	369.9	369.1	369.4	370.2
40°	403.7	401.2	399.5	400.3	399.2	398.4	398.9	399.2
42.5°	438.3	434.4	433.0	432.7	432.1	432.7	434.1	433.5
45°	478.8	473.8	471.8	471.5	470.7	470.4	470.9	472.1
47.5°	527.5	521.3	515.1	513.1	513.1	511.5	512.6	510.9
50°	587.1	577.0	570.5	566.9	564.6	562.1	564.3	560.7
52.5°	665.6	651.3	644.2	639.5	633.0	633.3	633.8	632.4
55°	764.7	748.9	735.1	725.8	721.9	719.6	719.1	723.6
57.5°	878.6	850.7	828.8	812.5	806.3	797.9	793.9	793.9
60°	986.9	936.3	892.7	865.4	845.1	830.8	821.2	818.4
62.5°	1039.8	963.0	899.1	854.1	822.0	801.5	787.7	784.1
65°	1017.0	919.4	844.3	793.6	756.5	730.1	714.0	709.5
67.5°	925.3	823.2	744.1	693.2	653.2	624.6	612.5	607.4
70°	768.3	674.6	606.0	556.2	514.6	490.4	473.8	467.0
72.5°	552.3	481.1	418.1	375.3	337.9	325.2	302.7	300.5
75°	326.3	264.5	212.4	179.8	146.3	128.0	117.6	106.3
77.5°	132.8	94.8	71.2	53.7	46.1	41.9	39.9	39.4
80°	45.3	40.5	38.3	37.4	36.3	35.7	34.3	33.2
82.5°	35.7	35.4	34.3	34.0	32.9	31.2	28.4	26.7
85°	29.8	29.3	27.9	27.6	26.7	24.5	21.4	19.4
87.5°	16.9	15.5	14.1	14.3	13.5	11.8	8.7	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)