

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: P472183

Luminaire Tested: **CCW-VA-1-830-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472183
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-830-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2929.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

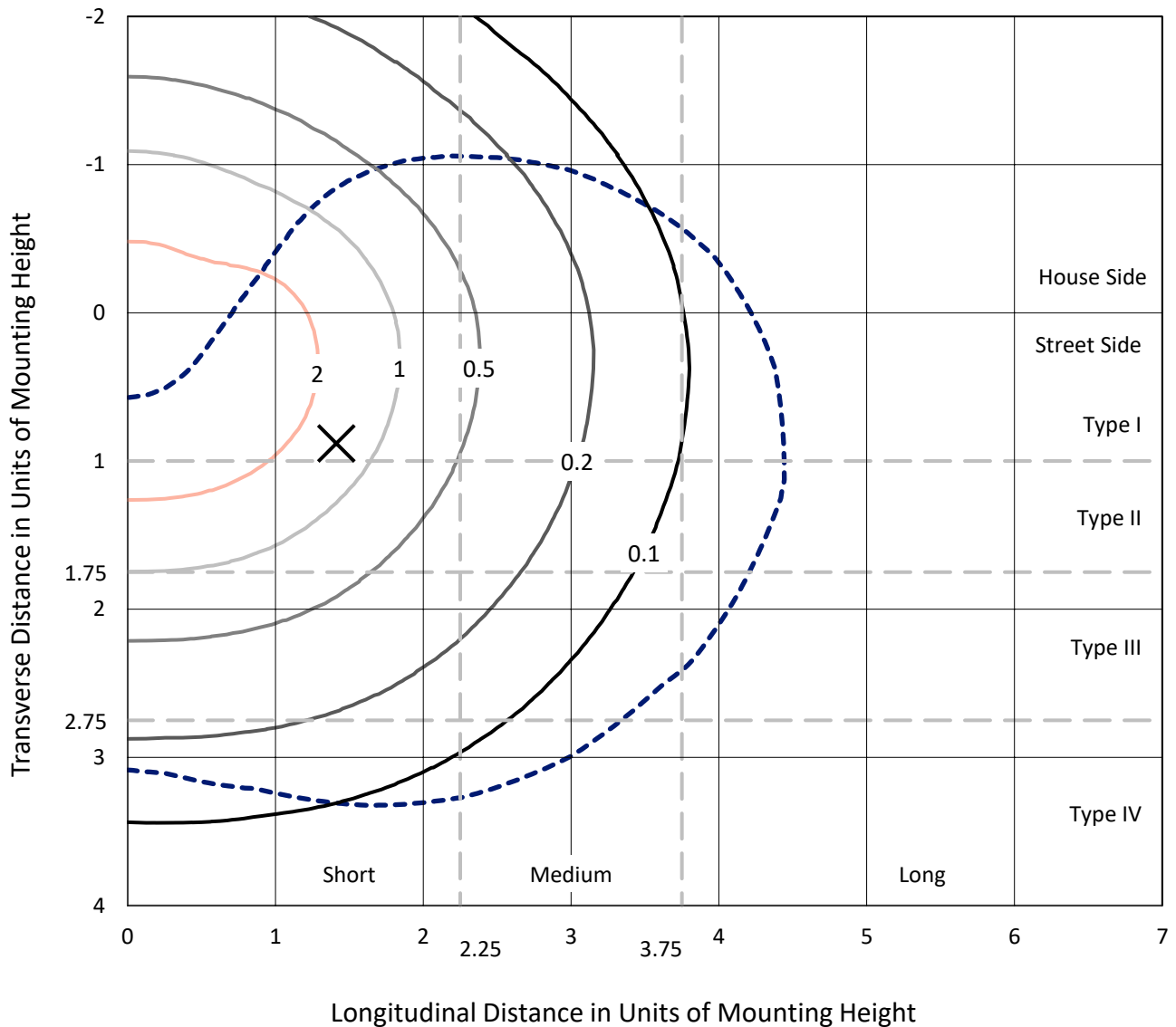
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

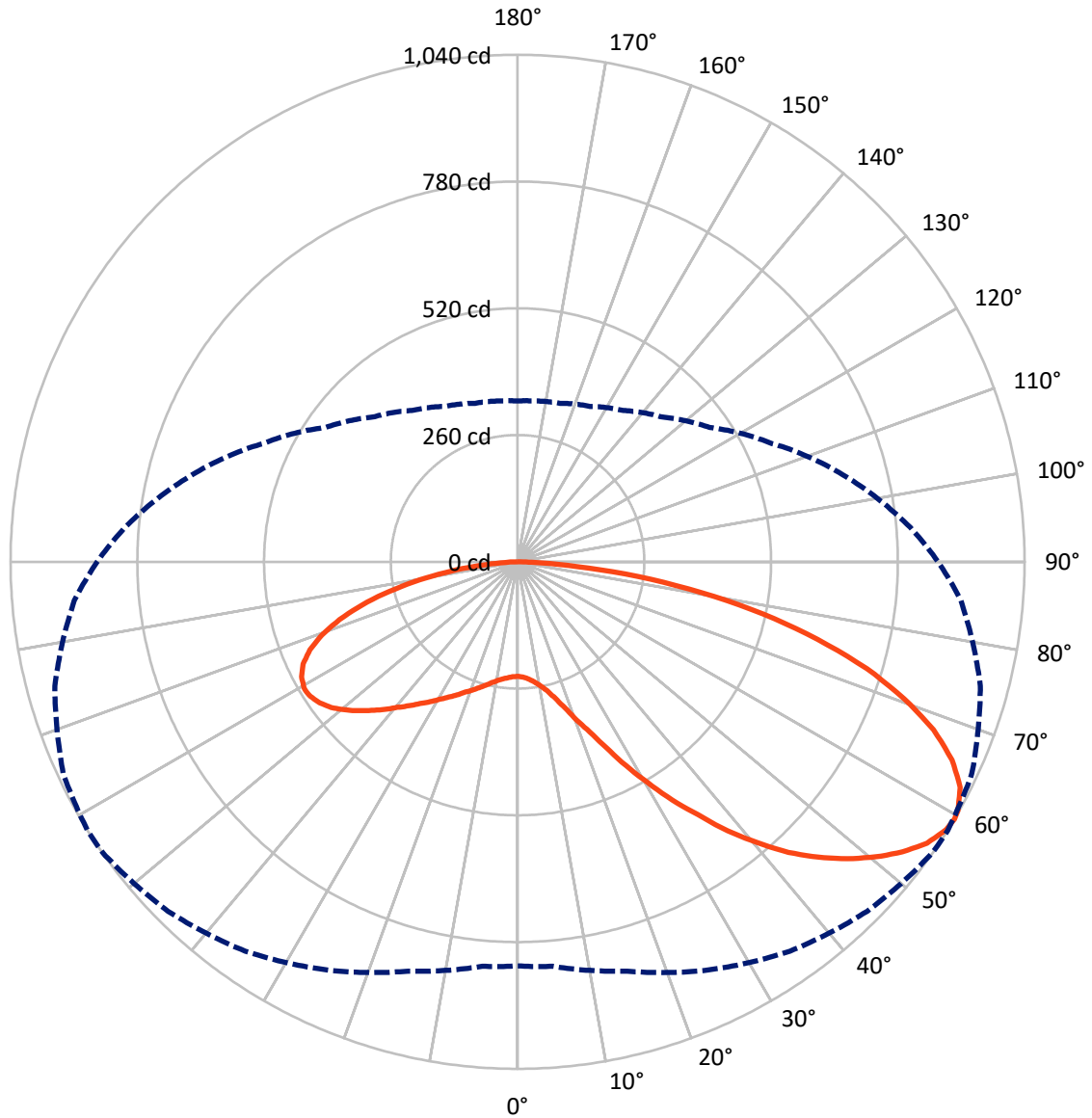
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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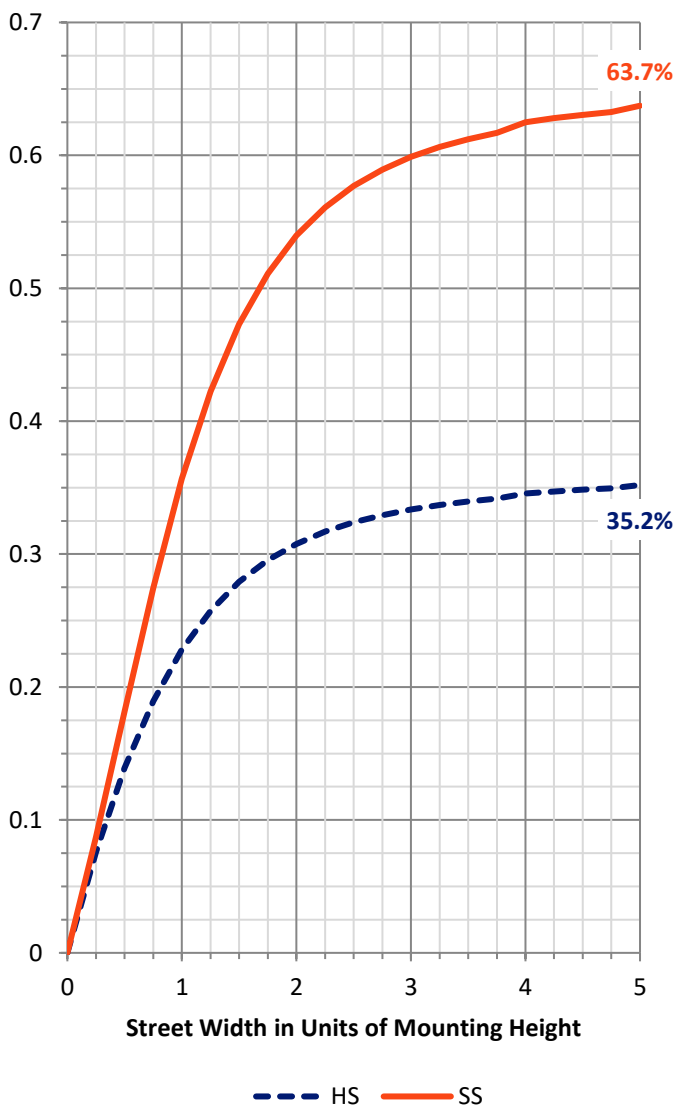
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1044.9	0.0	1044.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	1884.9	0.0	1884.9
	% Fixture	64.3	0.0	64.3
Total	Lumens	2929.7	0.0	2929.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	0.8
10°-20°	79.5	2.7
20°-30°	167.7	5.7
30°-40°	308.7	10.5
40°-50°	481.2	16.4
50°-60°	632.2	21.6
60°-70°	662.5	22.6
70°-80°	459.3	15.7
80°-90°	115.3	3.9
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°	2929.7	100.0
0°-180°	2929.7	100.0

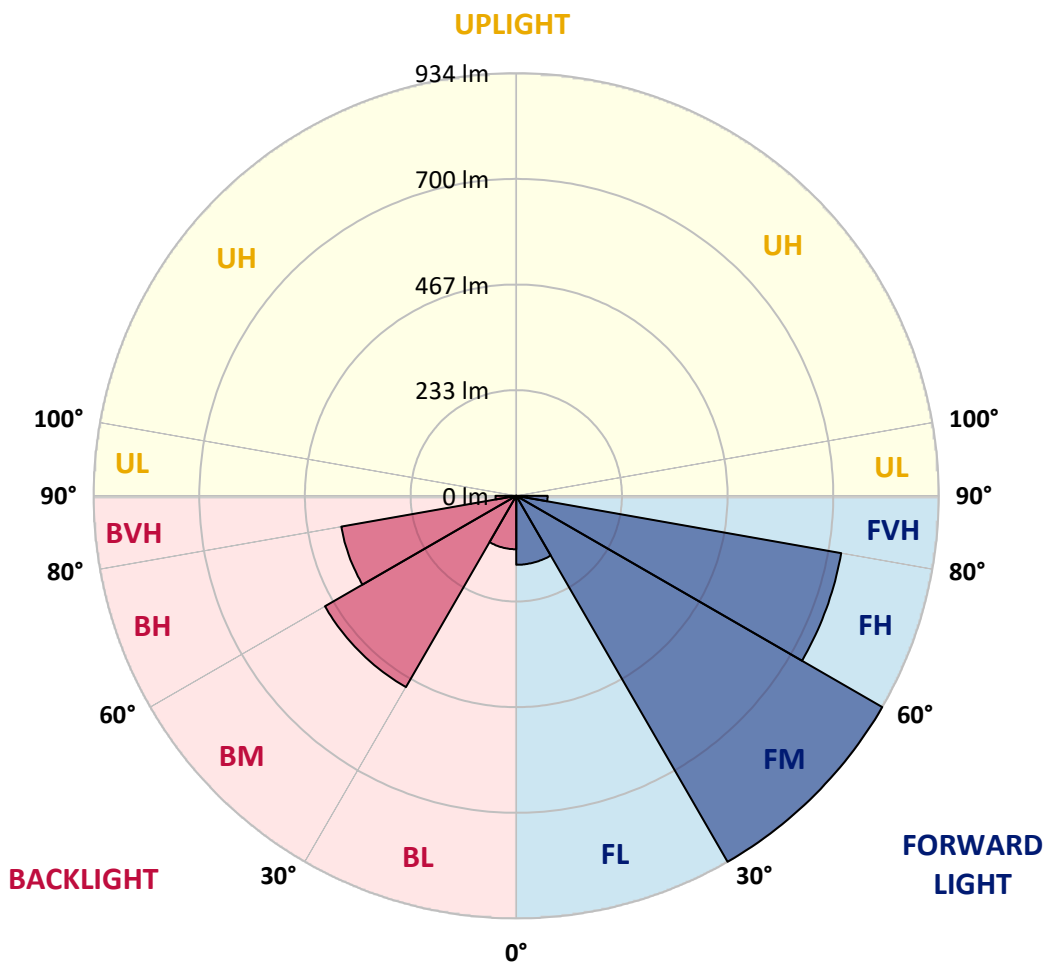


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.4	5.2			
FM (30°-60°)	934.0	31.9			
FH (60°-80°)	729.2	24.9			G1/1800
FVH (80°-90°)	69.3	2.4			G1/100
BL (0°-30°)	118.1	4.0	B1/500		
BM (30°-60°)	488.1	16.7	B1/1000		
BH (60°-80°)	392.6	13.4	B1/500		G1/500
BVH (80°-90°)	46.0	1.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9
2.5°	238.2	238.2	238.2	237.5	237.5	237.5	236.8	236.8	236.8	236.2	235.5
5°	243.4	243.4	242.8	243.4	242.8	242.1	241.5	241.5	241.5	240.8	240.1
7.5°	250.7	251.4	250.7	251.4	250.7	250.0	248.7	248.7	248.1	246.7	245.4
10°	261.9	261.9	261.9	261.3	260.6	259.9	259.3	258.6	258.0	256.0	254.0
12.5°	275.8	275.8	275.8	274.4	274.4	273.1	272.5	271.8	270.5	267.9	265.2
15°	292.9	292.3	294.2	294.2	293.6	293.6	291.6	290.3	289.0	285.0	279.1
17.5°	316.0	315.4	317.3	318.7	318.7	319.3	316.0	314.7	310.1	304.8	296.9
20°	347.0	345.7	347.7	349.0	347.7	349.0	345.7	346.4	339.8	330.5	318.0
22.5°	380.7	380.7	382.6	382.6	383.3	384.6	380.7	378.7	373.4	360.2	344.4
25°	422.2	425.5	425.5	425.5	428.2	428.8	424.9	421.6	414.3	396.5	374.7
27.5°	473.0	472.4	471.7	475.7	475.7	477.0	474.3	473.0	464.5	442.7	409.7
30°	527.1	523.2	525.8	527.1	529.8	531.7	529.1	525.1	514.6	490.8	449.9
32.5°	576.6	579.2	583.2	584.5	588.5	589.1	582.5	582.5	572.0	541.6	499.4
35°	632.7	632.7	643.2	647.9	647.9	651.8	641.9	636.6	629.4	597.7	544.3
37.5°	681.5	682.8	691.4	702.0	703.3	709.2	702.0	700.0	686.8	654.5	595.1
40°	727.0	728.3	738.9	751.4	758.7	767.9	760.7	757.4	743.5	706.6	645.9
42.5°	762.7	765.3	778.5	797.0	808.8	820.0	816.8	814.8	795.6	756.7	692.7
45°	789.7	794.3	812.8	834.6	851.1	867.6	868.2	864.3	846.4	802.9	738.2
47.5°	811.5	816.8	837.2	864.9	890.0	910.4	914.4	909.8	893.3	847.8	779.1
50°	829.3	831.9	855.0	890.6	921.6	947.4	955.3	951.3	936.8	885.4	814.8
52.5°	838.5	842.5	868.9	909.8	947.4	978.4	990.3	988.3	971.1	919.7	846.4
55°	843.1	847.1	878.1	924.9	967.2	1003.5	1018.0	1018.6	1002.1	950.7	876.1
57.5°	837.9	843.1	876.8	928.9	975.7	1014.7	1037.1	1036.4	1023.2	974.4	901.2
59°	828.6	832.6	868.9	923.6	974.4	1013.4	1039.1	1039.7	1027.9	982.3	912.4
60°	818.1	822.7	859.6	917.0	969.1	1008.7	1035.8	1037.1	1027.2	984.3	917.0
62.5°	781.8	787.7	828.6	890.0	946.7	984.3	1016.6	1018.6	1013.4	979.0	920.3
65°	731.0	736.3	780.5	845.8	905.2	944.1	974.4	979.0	978.4	955.3	907.1
67.5°	669.0	669.6	711.2	782.4	844.5	882.7	911.8	919.7	925.6	910.4	868.2
70°	594.4	593.8	634.0	704.6	766.6	806.9	835.9	841.2	856.3	844.5	810.2
72.5°	502.1	510.0	547.6	607.0	668.3	713.2	738.9	748.8	757.4	760.0	731.6
75°	415.0	423.5	453.2	508.7	561.4	603.0	630.7	635.3	651.2	655.1	628.7
77.5°	331.8	332.5	354.3	398.5	446.6	480.9	503.4	515.3	523.8	531.7	504.0
80°	232.9	236.2	251.4	283.0	320.6	356.9	375.4	383.3	389.2	394.5	385.3
82.5°	145.8	147.1	157.0	176.1	201.9	222.3	241.5	248.1	249.4	261.3	259.9
85°	69.3	69.9	76.5	85.8	97.0	113.5	120.7	120.7	130.0	138.5	138.5
87.5°	9.2	9.2	11.2	12.5	15.8	20.5	28.4	29.0	34.3	38.3	41.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9
2.5°	235.5	235.5	235.5	235.5	235.5	234.9	235.5	235.5	235.5	235.5	235.5
5°	240.1	239.5	238.8	238.2	238.2	237.5	237.5	237.5	237.5	237.5	237.5
7.5°	244.8	244.1	243.4	242.1	241.5	240.8	240.8	240.1	240.1	240.1	240.1
10°	252.7	252.0	249.4	247.4	246.1	245.4	244.8	244.1	243.4	243.4	243.4
12.5°	263.2	261.9	257.3	254.7	252.7	251.4	250.0	249.4	248.7	248.1	248.1
15°	276.4	273.1	267.2	263.2	260.6	258.6	256.6	255.3	254.7	254.0	254.0
17.5°	292.3	288.3	280.4	273.1	268.5	265.2	262.6	260.6	259.9	259.9	259.9
20°	312.1	305.5	294.2	284.3	277.1	272.5	268.5	266.5	265.9	265.2	264.6
22.5°	335.1	326.6	310.1	294.9	285.7	279.1	274.4	271.8	269.8	269.2	269.2
25°	361.5	349.0	327.2	308.8	296.2	287.0	281.0	277.7	274.4	273.1	273.1
27.5°	393.2	376.7	347.7	323.3	306.1	294.9	288.3	283.7	280.4	277.7	276.4
30°	427.5	409.0	370.1	339.1	317.3	304.8	296.9	291.6	287.0	282.4	281.7
32.5°	471.0	444.7	397.2	356.9	330.5	314.7	305.5	298.9	292.9	288.3	287.0
35°	515.3	483.6	425.5	375.4	343.1	323.9	312.7	305.5	299.5	294.2	293.6
37.5°	560.8	527.1	456.5	397.2	357.6	334.5	320.6	312.7	305.5	300.2	299.5
40°	608.3	568.7	488.2	419.6	372.7	345.0	329.2	319.3	311.4	306.8	306.1
42.5°	653.1	610.3	522.5	446.0	390.6	356.3	337.8	327.2	317.3	312.7	312.1
45°	696.0	649.8	556.8	470.4	408.4	368.1	346.4	333.8	323.3	318.7	318.0
47.5°	734.9	688.8	588.5	496.8	426.8	381.3	355.6	340.4	328.5	323.9	323.9
50°	769.9	721.7	619.5	521.2	444.0	394.5	363.5	346.4	334.5	329.9	329.2
52.5°	802.9	750.8	646.5	542.3	460.5	406.4	371.4	351.0	338.4	333.2	332.5
55°	829.3	777.2	669.0	559.5	471.7	414.3	376.7	353.6	339.8	335.1	334.5
57.5°	852.4	798.9	684.8	571.3	479.0	418.9	379.3	353.6	339.1	333.8	333.2
59°	862.3	808.2	690.1	574.6	480.3	419.6	378.7	351.6	336.5	331.2	329.9
60°	867.6	812.1	692.1	575.3	479.6	418.3	378.0	349.7	333.8	327.9	327.9
62.5°	872.8	815.4	689.4	570.0	472.4	411.0	371.4	341.7	323.9	317.3	317.3
65°	861.6	803.6	674.2	555.5	457.9	398.5	358.9	328.5	308.8	302.2	302.2
67.5°	828.6	774.5	646.5	528.4	434.1	376.7	338.4	307.4	289.0	281.7	279.7
70°	772.5	727.0	603.0	489.5	401.8	349.0	312.7	283.0	263.9	256.6	254.0
72.5°	697.3	652.5	544.9	442.0	358.9	312.7	281.0	252.7	231.6	224.3	225.0
75°	593.8	562.1	469.7	382.0	309.4	266.5	240.1	216.4	198.6	192.6	193.3
77.5°	481.6	455.2	380.7	311.4	252.7	219.7	197.3	178.1	166.3	163.0	161.0
80°	368.8	343.1	285.7	232.2	192.0	168.9	153.7	140.5	131.3	126.7	128.0
82.5°	247.4	231.6	189.3	153.7	130.6	114.1	108.9	100.3	97.0	94.3	96.3
85°	133.3	119.4	99.0	82.5	71.9	67.3	68.6	68.0	65.3	64.7	66.6
87.5°	43.5	37.6	29.0	24.4	25.1	22.4	22.4	21.1	19.1	18.5	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)