

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: P472285

Luminaire Tested: **CCW-VA-1-827-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472285
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-827-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2923.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

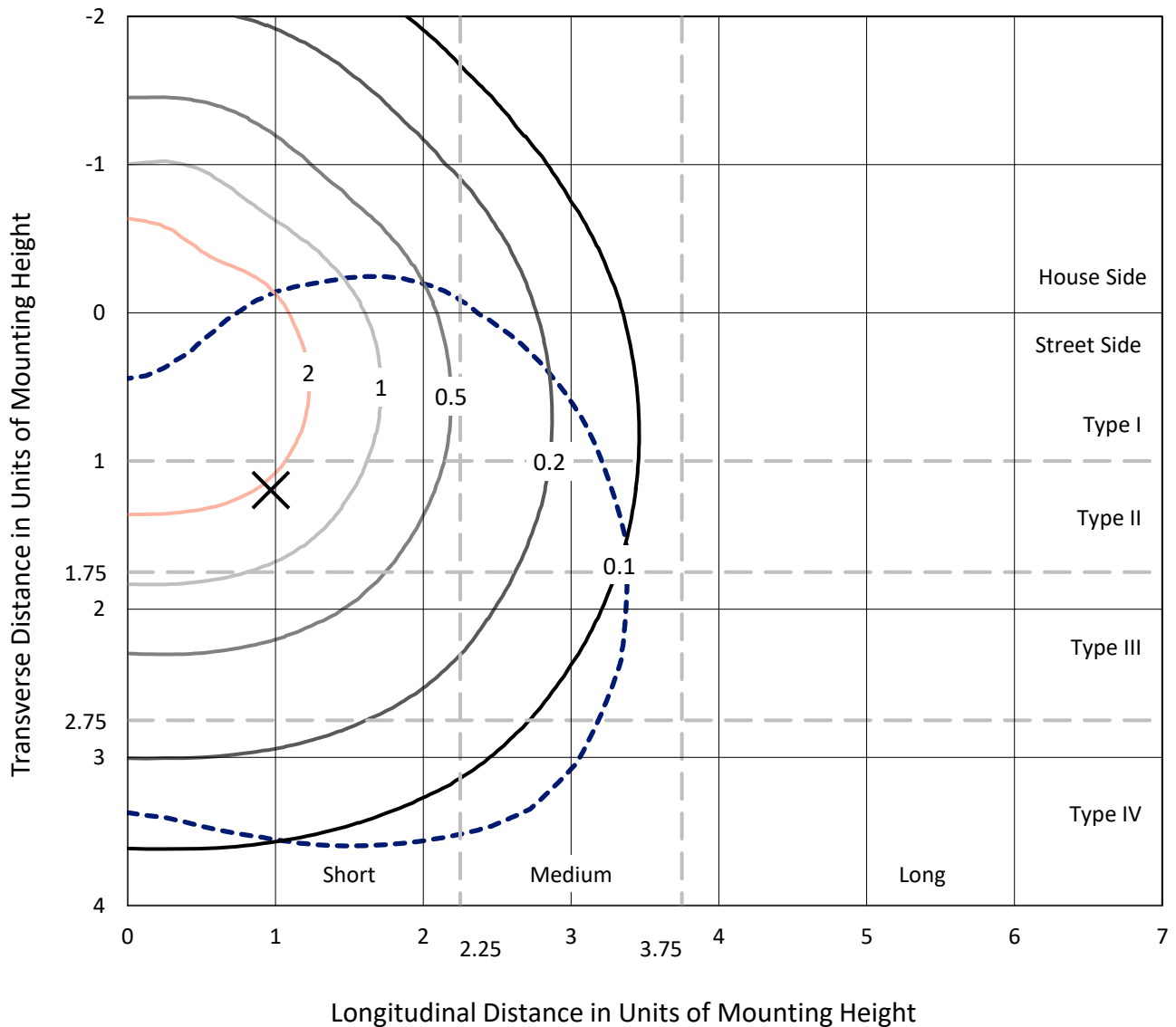
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

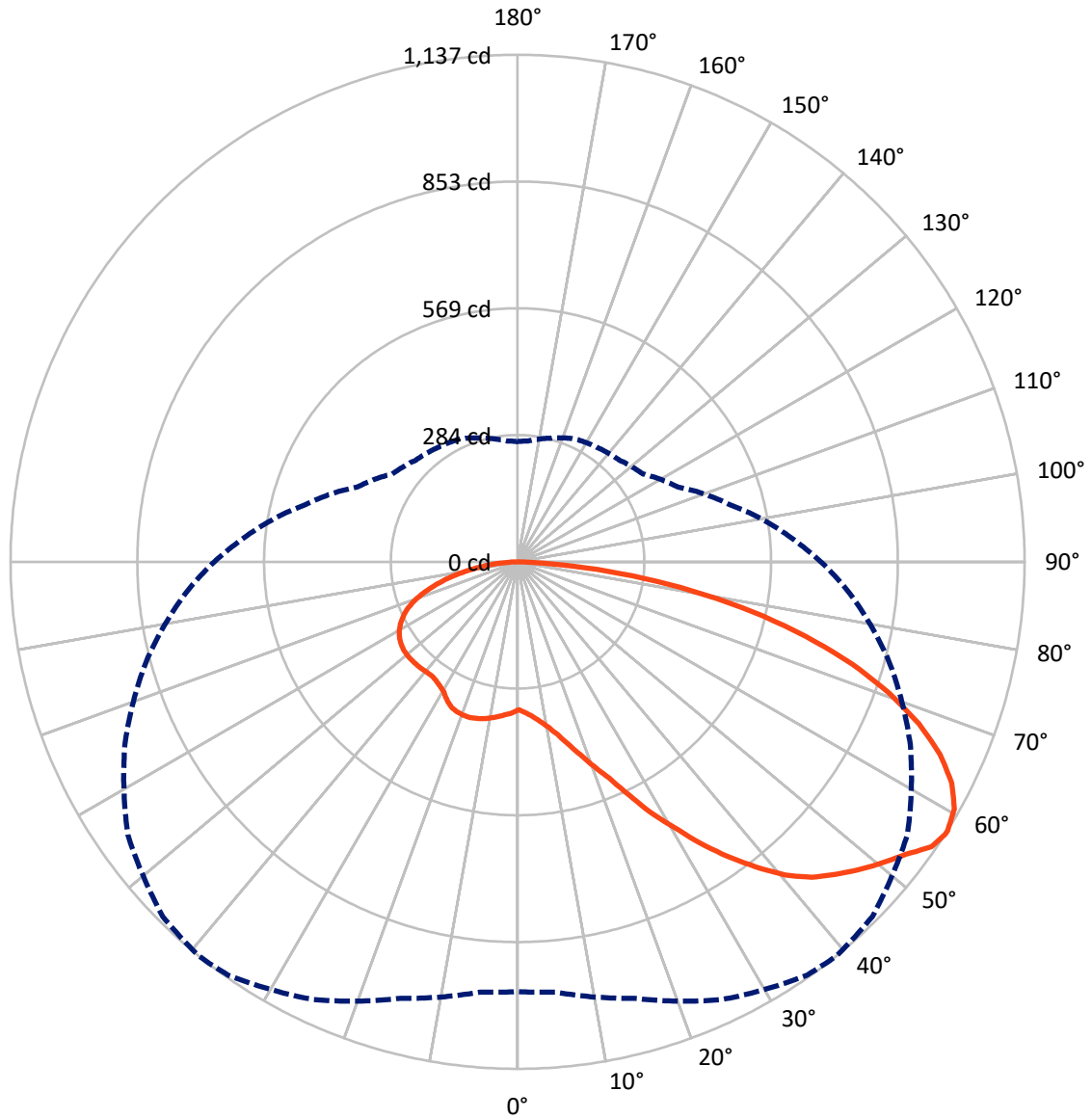
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.1	0.0	897.1
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2026.6	0.0	2026.6
	% Fixture	69.3	0.0	69.3
Total	Lumens	2923.8	0.0	2923.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	1.1
10°-20°	112.0	3.8
20°-30°	216.3	7.4
30°-40°	349.8	12.0
40°-50°	491.5	16.8
50°-60°	607.1	20.8
60°-70°	603.4	20.6
70°-80°	408.3	14.0
80°-90°	101.9	3.5
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°	2923.8	100.0
0°-180°	2923.8	100.0

Coefficient of Utilization

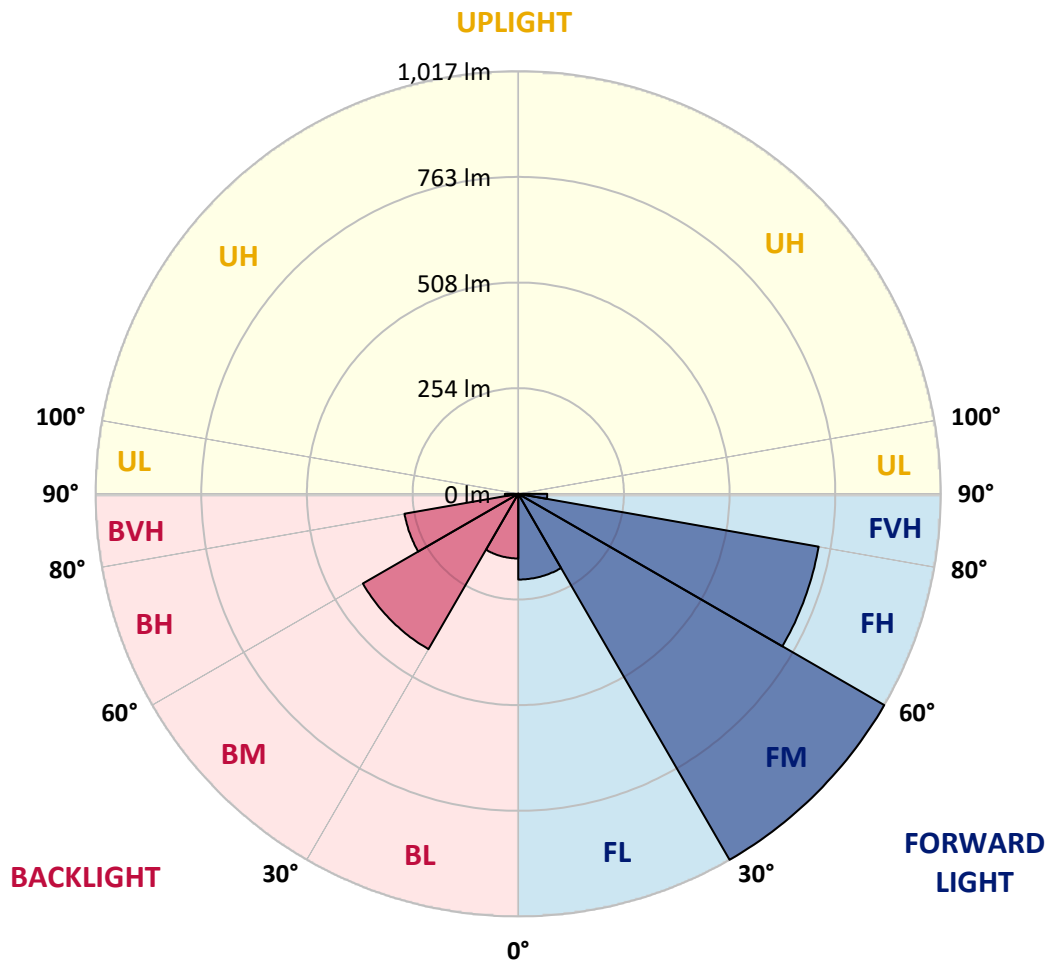


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.3	7.1			
FM (30°-60°)	1016.7	34.8			
FH (60°-80°)	733.9	25.1			G1/1800
FVH (80°-90°)	69.7	2.4			G1/100
BL (0°-30°)	155.5	5.3	B1/500		
BM (30°-60°)	431.6	14.8	B1/1000		
BH (60°-80°)	277.8	9.5	B1/500		G1/500
BVH (80°-90°)	32.2	1.1			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°	39°	45°	55°	65°	75°	85°
0°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	341.4	340.9	340.5	340.5	339.6	338.7	338.3	337.4	337.8	338.7	339.2
5°	351.3	350.4	350.4	349.5	348.1	348.1	346.8	345.0	344.5	344.1	344.1
7.5°	366.5	365.1	365.6	364.2	362.9	361.1	358.9	356.6	355.7	352.6	349.9
10°	384.0	383.5	382.2	379.9	378.6	376.8	374.6	370.5	367.4	363.8	361.6
12.5°	404.6	403.7	404.1	402.3	400.1	397.0	393.4	389.3	383.5	376.8	372.3
15°	431.5	429.7	429.7	429.2	424.7	423.8	420.3	411.3	403.2	394.3	384.0
17.5°	464.2	463.7	461.9	460.1	457.4	454.3	450.7	440.9	428.8	414.9	401.0
20°	499.1	498.2	499.6	496.9	491.5	490.1	484.3	473.1	458.3	442.2	421.1
22.5°	537.2	538.1	538.1	537.2	532.7	527.3	522.4	507.6	490.6	470.9	446.2
25°	583.3	583.8	586.5	589.2	586.5	578.0	571.2	548.4	525.5	500.4	471.3
27.5°	635.3	632.2	639.8	644.7	639.8	637.5	622.8	597.7	566.3	534.9	498.7
30°	685.5	685.5	691.8	698.9	695.8	690.4	678.3	646.1	610.2	570.3	526.4
32.5°	732.1	737.5	740.1	756.7	754.9	752.2	738.3	695.8	651.0	605.7	553.3
35°	787.2	785.4	796.6	806.9	815.0	811.4	801.1	758.1	699.4	642.9	582.9
37.5°	828.9	832.4	842.3	860.7	866.5	868.3	855.3	810.9	744.2	682.8	615.6
40°	860.7	863.3	882.2	905.5	917.6	923.8	910.8	857.1	786.3	714.6	641.1
42.5°	886.2	888.0	907.7	940.9	961.0	967.3	955.6	898.7	822.1	740.1	662.2
45°	903.2	906.4	929.7	963.7	995.1	999.6	993.7	935.5	853.9	764.3	677.4
47.5°	918.0	921.6	947.6	990.6	1025.5	1031.4	1026.0	967.7	884.4	786.3	690.4
50°	937.7	941.8	967.7	1015.7	1054.2	1060.9	1059.1	1001.8	913.1	810.9	703.9
52.5°	956.5	959.7	990.6	1043.9	1085.6	1090.1	1088.7	1033.6	942.2	837.4	720.9
55°	971.3	974.9	1011.6	1077.5	1122.3	1127.2	1117.8	1058.2	965.1	856.6	737.0
57°	963.7	968.6	1013.4	1083.3	1131.7	1137.1	1125.0	1067.2	971.8	862.0	742.8
57.5°	961.5	965.1	1011.6	1082.9	1132.2	1137.1	1125.0	1066.8	971.3	861.6	742.8
60°	928.8	937.3	989.7	1066.8	1119.2	1125.4	1113.8	1048.8	960.1	849.0	730.7
62.5°	884.9	896.5	951.6	1028.7	1087.8	1092.3	1080.6	1018.8	935.0	822.6	705.6
65°	821.7	839.6	897.4	971.8	1035.8	1041.2	1029.6	968.6	893.4	782.3	668.0
67.5°	759.9	770.6	832.4	903.2	962.8	970.9	961.0	906.8	836.0	728.5	617.8
70°	689.5	697.1	748.2	817.7	877.7	884.4	875.9	825.3	758.5	661.7	559.1
72.5°	604.8	612.9	656.4	720.4	773.7	784.5	778.7	726.3	665.8	582.0	493.7
75°	509.4	518.4	557.3	608.4	660.4	666.7	659.9	621.4	566.8	491.0	414.0
77.5°	413.1	418.9	447.1	485.7	526.0	539.4	537.6	510.3	455.2	395.2	332.4
80°	309.1	310.0	324.8	356.6	388.9	398.7	401.0	376.3	340.1	294.8	249.1
82.5°	195.3	198.5	206.5	230.3	246.0	259.4	262.5	248.2	225.4	197.1	168.9
85°	90.9	88.3	94.5	102.6	125.0	125.0	129.0	121.4	114.7	105.3	87.4
87.5°	7.6	7.2	7.2	7.6	12.1	13.0	20.6	22.8	24.6	24.6	26.0
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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	338.3	337.8	336.5	336.5	337.4	338.7	339.2	339.6	340.1	340.5	340.5
5°	343.6	343.2	342.3	341.4	342.3	342.7	344.1	345.0	345.0	345.9	345.4
7.5°	348.6	349.0	348.1	347.7	347.7	348.6	350.4	351.7	352.6	353.0	353.9
10°	359.8	357.1	353.5	351.7	351.7	353.5	355.3	357.1	358.9	359.8	359.8
12.5°	369.6	366.5	359.8	357.1	356.6	358.4	360.7	363.4	364.7	366.0	366.0
15°	378.6	375.9	367.8	361.6	359.8	361.1	363.8	366.9	369.2	370.5	370.5
17.5°	395.6	387.5	376.8	366.5	362.9	363.4	366.5	369.6	372.3	373.2	372.8
20°	411.7	401.4	385.3	370.5	364.7	362.9	366.0	370.1	372.3	373.7	373.7
22.5°	430.1	418.9	393.8	374.6	363.8	361.1	363.8	367.4	370.1	371.0	371.9
25°	456.1	436.4	403.2	377.7	362.5	357.1	358.9	362.5	365.6	366.0	365.6
27.5°	479.4	457.0	415.8	380.8	359.3	349.5	347.7	350.4	355.3	358.4	359.3
30°	499.6	478.9	428.8	383.5	353.5	336.9	334.7	335.6	338.7	347.2	347.7
32.5°	529.6	497.8	441.8	385.8	346.8	330.2	327.1	326.2	327.1	331.5	331.5
35°	550.2	518.8	454.7	389.8	341.8	324.8	321.7	320.3	319.4	315.0	313.6
37.5°	577.1	542.1	467.3	393.4	339.6	322.6	318.1	319.0	314.5	302.0	298.4
40°	606.6	563.2	479.8	397.0	340.5	323.0	319.0	318.5	310.9	293.5	289.9
42.5°	621.0	581.1	492.8	401.9	344.1	324.4	320.8	319.4	310.0	290.3	285.4
45°	634.9	594.1	502.2	405.9	347.7	326.2	321.7	320.3	309.6	287.6	284.0
47.5°	647.4	602.1	506.7	408.2	350.4	327.5	322.1	319.9	307.3	286.3	282.7
50°	653.2	606.6	506.7	408.2	351.3	328.9	321.2	318.1	303.8	284.0	280.9
52.5°	662.2	609.3	502.7	405.5	349.9	328.9	319.4	314.5	299.3	280.9	278.2
55°	675.6	614.2	497.3	401.4	346.8	326.2	316.3	309.6	293.0	276.4	274.2
57°	680.1	616.0	493.7	396.5	343.2	322.6	312.7	304.2	287.2	272.0	269.7
57.5°	679.2	615.1	492.4	395.2	341.8	321.2	311.8	302.9	285.8	271.1	268.8
60°	667.1	606.6	483.9	386.6	334.7	314.1	303.8	293.9	276.4	263.4	261.6
62.5°	647.4	587.4	468.6	375.4	324.8	304.2	293.5	282.3	264.8	253.6	252.7
65°	613.8	555.1	446.7	359.3	312.3	291.2	279.6	267.5	252.2	242.4	239.7
67.5°	557.8	512.1	415.8	336.9	293.0	275.1	262.5	250.0	236.1	227.6	225.8
70°	511.2	465.1	376.3	308.7	269.7	252.7	241.0	228.9	216.8	209.2	208.8
72.5°	452.1	407.7	327.1	273.7	240.1	223.6	214.6	203.9	194.4	187.7	187.7
75°	380.4	345.4	276.0	232.1	204.7	192.7	185.0	176.5	168.5	164.0	164.9
77.5°	302.4	276.0	225.4	187.7	167.6	159.5	152.3	147.4	142.5	138.4	138.9
80°	223.1	203.4	165.8	138.0	128.1	121.0	119.6	116.5	113.8	112.5	110.2
82.5°	152.8	135.3	110.2	94.5	87.4	85.1	85.6	85.6	86.0	86.0	85.1
85°	79.3	72.6	56.0	50.6	49.7	52.0	54.7	56.5	56.0	56.0	54.7
87.5°	22.8	20.6	17.9	16.1	17.0	18.4	16.1	15.7	15.2	14.8	14.8
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)