

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: P472227

Luminaire Tested: **CCW-VA-3-740-U-T2**

Issue Date: 01/27/2021

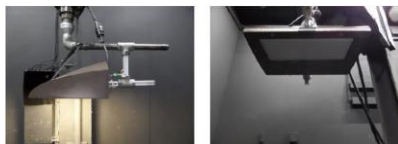
Test Information

Test Method: LM-79-08
Report Number: P472227
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-740-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

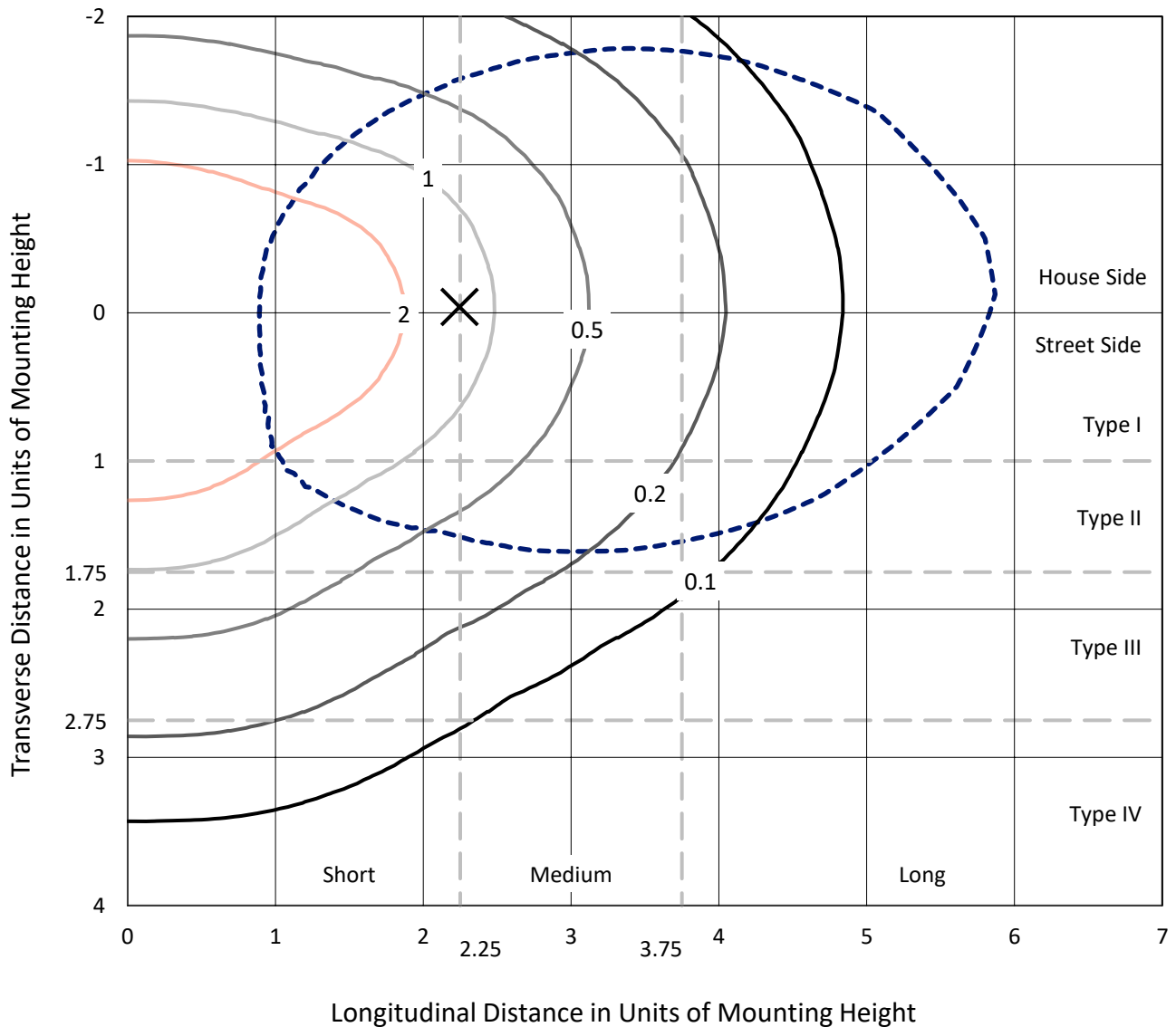
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

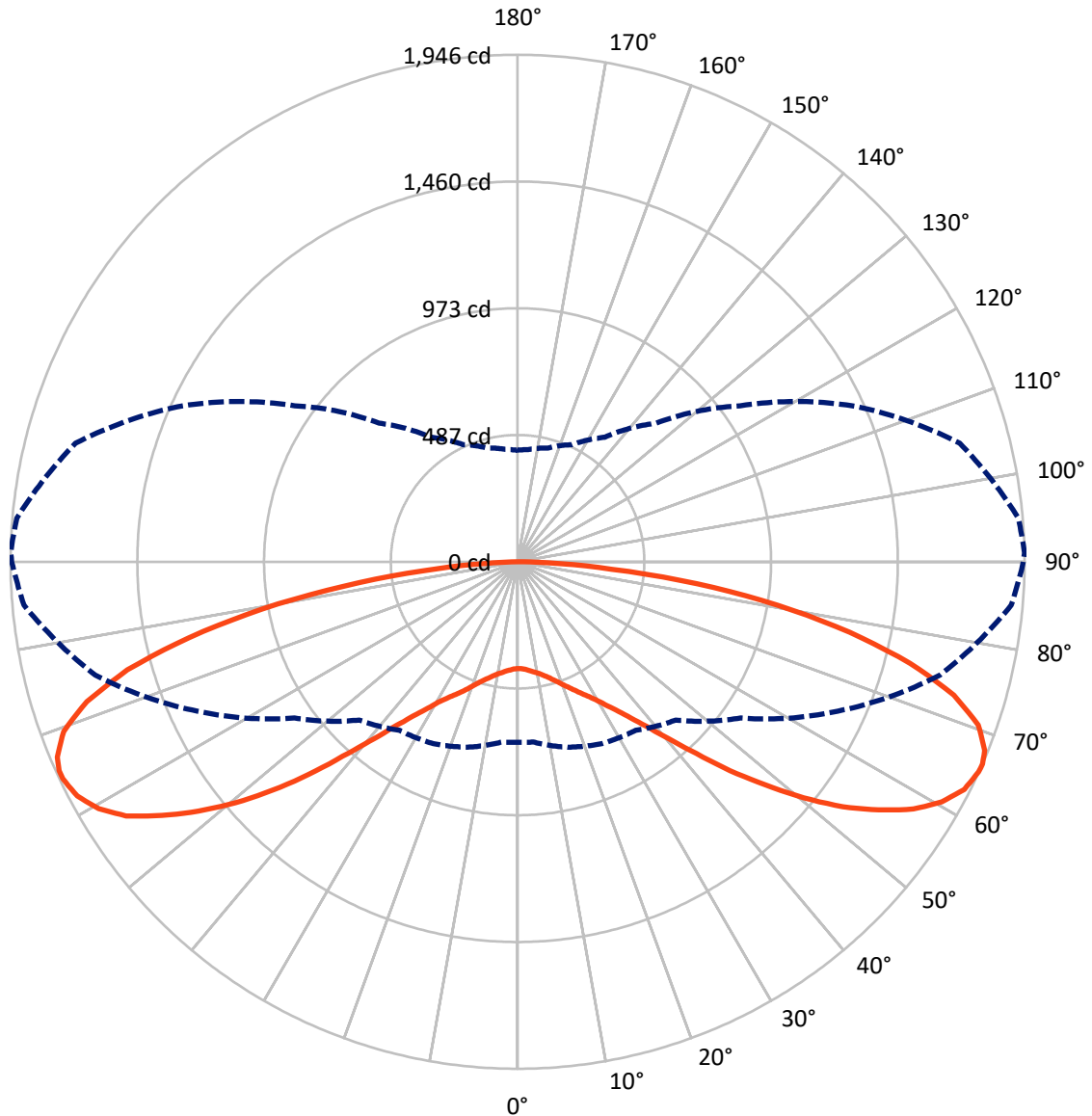
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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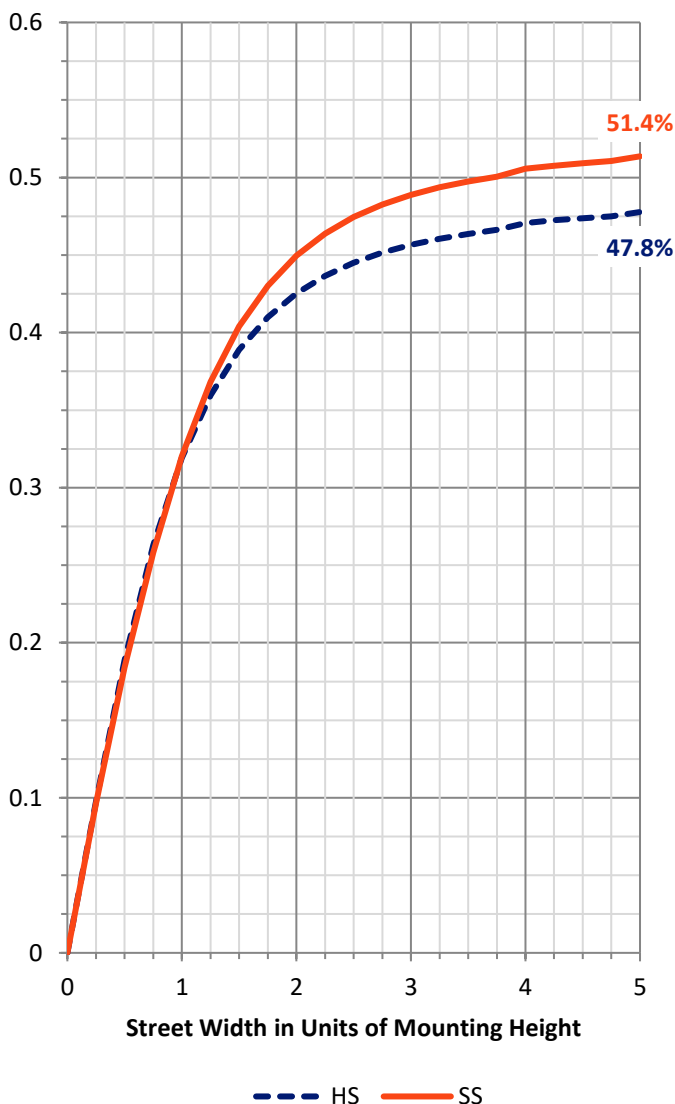
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2134.9	0.0	2134.9
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2288.3	0.0	2288.3
	% Fixture	51.7	0.0	51.7
Total	Lumens	4423.2	0.0	4423.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	0.9
10°-20°	132.0	3.0
20°-30°	255.4	5.8
30°-40°	419.0	9.5
40°-50°	663.7	15.0
50°-60°	915.2	20.7
60°-70°	1027.7	23.2
70°-80°	768.1	17.4
80°-90°	201.8	4.6
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°	4423.2	100.0
0°-180°	4423.2	100.0

Coefficient of Utilization



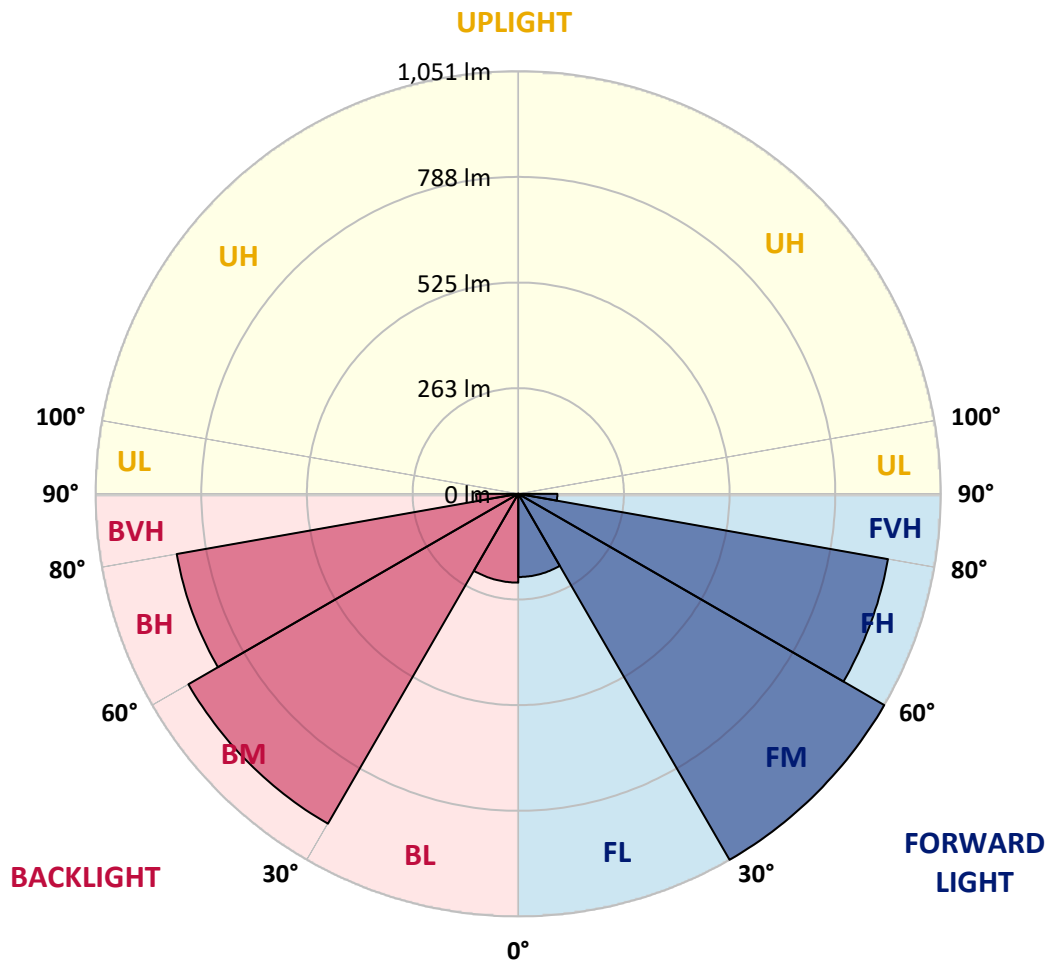
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.8	4.7			
FM (30°-60°)	1050.8	23.8			
FH (60°-80°)	933.5	21.1			G1/1800
FVH (80°-90°)	97.2	2.2			G1/100
BL (0°-30°)	220.9	5.0	B1/500		
BM (30°-60°)	947.1	21.4	B1/1000		
BH (60°-80°)	862.3	19.5	B2/1000		G2/1000
BVH (80°-90°)	104.6	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9
2.5°	411.4	411.4	411.4	411.4	413.0	413.0	413.0	413.0	413.0	411.4	411.4
5°	414.6	414.6	414.6	414.6	416.1	416.1	416.1	416.1	417.7	417.7	417.7
7.5°	417.7	417.7	419.2	419.2	420.8	420.8	422.4	422.4	423.9	425.5	425.5
10°	423.9	423.9	425.5	425.5	428.6	430.2	431.8	431.8	434.9	434.9	434.9
12.5°	431.8	433.3	434.9	436.5	439.6	441.1	442.7	444.3	445.8	447.4	447.4
15°	444.3	442.7	445.8	449.0	450.5	453.7	455.2	456.8	459.9	463.0	463.0
17.5°	453.7	455.2	456.8	459.9	463.0	467.7	470.9	474.0	477.1	480.3	480.3
20°	466.2	464.6	470.9	475.6	478.7	485.0	489.6	495.9	499.0	502.2	503.7
22.5°	477.1	478.7	481.8	488.1	494.3	503.7	513.1	517.8	522.5	525.6	530.3
25°	491.2	492.8	497.5	503.7	513.1	524.1	535.0	541.3	546.0	552.2	556.9
27.5°	505.3	505.3	513.1	522.5	533.4	547.5	560.0	566.3	574.1	581.9	585.1
30°	520.9	520.9	528.8	541.3	556.9	572.6	583.5	596.0	607.0	614.8	621.0
32.5°	544.4	544.4	553.8	566.3	583.5	602.3	617.9	630.4	644.5	658.6	671.1
35°	571.0	572.6	585.1	600.7	621.0	644.5	658.6	675.8	691.4	714.9	727.4
37.5°	613.2	614.8	628.9	649.2	669.5	694.6	718.0	738.4	761.8	788.4	797.8
40°	675.8	680.5	694.6	704.0	722.7	741.5	775.9	810.3	851.0	887.0	893.2
42.5°	788.4	783.7	774.4	771.2	775.9	796.3	833.8	887.0	959.0	1004.3	1004.3
45°	832.2	832.2	833.8	830.7	827.5	841.6	885.4	969.9	1071.6	1134.2	1146.7
47.5°	840.1	841.6	855.7	868.2	871.3	887.0	940.2	1051.2	1187.3	1279.6	1287.5
50°	840.1	843.2	862.0	883.9	899.5	921.4	987.1	1123.2	1301.5	1407.9	1428.3
52.5°	836.9	840.1	860.4	887.0	912.0	943.3	1027.8	1198.3	1403.2	1547.1	1556.5
55°	829.1	832.2	857.3	885.4	913.6	955.8	1060.6	1262.4	1501.8	1662.9	1680.1
57.5°	819.7	824.4	851.0	880.7	907.3	959.0	1082.5	1312.5	1581.6	1766.2	1797.4
60°	801.0	808.8	838.5	868.2	893.2	948.0	1093.5	1351.6	1641.0	1841.2	1872.5
62.5°	763.4	771.2	804.1	836.9	862.0	921.4	1087.2	1370.4	1675.4	1888.2	1921.0
65°	716.5	719.6	755.6	790.0	815.0	877.6	1060.6	1367.2	1683.2	1903.8	1941.4
66°	693.0	694.6	736.8	769.7	790.0	858.8	1045.0	1356.3	1678.6	1902.3	1941.4
67.5°	650.8	658.6	694.6	729.0	752.5	816.6	1007.4	1331.3	1659.8	1886.6	1927.3
70°	577.2	583.5	613.2	647.6	672.7	733.7	926.1	1257.7	1591.0	1822.5	1869.4
72.5°	497.5	502.2	533.4	558.5	574.1	639.8	827.5	1137.3	1470.5	1702.0	1747.4
75°	413.0	416.1	444.3	461.5	475.6	533.4	696.1	982.4	1281.2	1506.5	1565.9
77.5°	325.4	327.0	350.4	366.1	366.1	416.1	552.2	796.3	1051.2	1259.3	1303.1
80°	239.3	237.8	251.9	259.7	264.4	297.2	397.3	585.1	801.0	963.6	1005.9
82.5°	156.4	154.9	164.3	167.4	167.4	187.7	250.3	370.8	525.6	653.9	678.9
85°	82.9	86.0	84.5	84.5	84.5	92.3	125.1	194.0	280.0	350.4	367.6
87.5°	14.1	14.1	14.1	15.6	18.8	25.0	32.9	54.8	79.8	107.9	122.0
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9
2.5°	411.4	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
5°	417.7	417.7	417.7	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
7.5°	425.5	425.5	427.1	427.1	427.1	428.6	428.6	427.1	427.1	427.1	427.1
10°	434.9	434.9	436.5	438.0	438.0	439.6	439.6	438.0	438.0	436.5	436.5
12.5°	447.4	449.0	450.5	452.1	453.7	453.7	452.1	450.5	449.0	447.4	447.4
15°	463.0	464.6	466.2	469.3	469.3	469.3	467.7	466.2	463.0	461.5	463.0
17.5°	481.8	483.4	486.5	488.1	489.6	488.1	488.1	486.5	486.5	485.0	485.0
20°	505.3	506.9	511.5	513.1	513.1	514.7	519.4	522.5	527.2	528.8	528.8
22.5°	528.8	531.9	536.6	542.8	546.0	552.2	553.8	556.9	555.3	550.7	550.7
25°	556.9	560.0	569.4	577.2	583.5	586.6	583.5	578.8	571.0	564.7	563.2
27.5°	586.6	591.3	605.4	616.4	619.5	616.4	603.8	592.9	583.5	575.7	572.6
30°	624.2	632.0	647.6	653.9	652.3	639.8	621.0	607.0	592.9	583.5	581.9
32.5°	671.1	678.9	693.0	694.6	685.2	661.7	636.7	617.9	600.7	589.8	588.2
35°	727.4	735.2	743.1	738.4	711.8	682.1	650.8	624.2	607.0	594.5	594.5
37.5°	799.4	804.1	804.1	780.6	739.9	700.8	661.7	630.4	611.7	599.1	597.6
40°	893.2	891.7	869.8	824.4	771.2	718.0	669.5	636.7	613.2	600.7	599.1
42.5°	1005.9	994.9	948.0	874.5	801.0	733.7	678.9	638.3	611.7	599.1	597.6
45°	1143.5	1124.8	1040.3	932.4	832.2	747.8	683.6	636.7	607.0	592.9	591.3
47.5°	1279.6	1268.7	1152.9	993.4	863.5	763.4	686.8	632.0	597.6	577.2	577.2
50°	1423.6	1397.0	1265.6	1066.9	896.4	774.4	686.8	624.2	581.9	560.0	556.9
52.5°	1562.8	1536.2	1379.8	1140.4	932.4	785.3	683.6	613.2	567.9	544.4	541.3
55°	1681.7	1659.8	1490.8	1223.3	969.9	793.1	678.9	600.7	553.8	531.9	528.8
57.5°	1791.2	1769.3	1587.8	1293.7	1005.9	797.8	668.0	585.1	536.6	514.7	513.1
60°	1871.0	1853.8	1670.7	1359.4	1035.6	797.8	652.3	566.3	517.8	495.9	494.3
62.5°	1924.2	1907.0	1730.2	1403.2	1054.4	786.9	628.9	541.3	494.3	474.0	469.3
65°	1944.5	1928.9	1756.8	1420.4	1051.2	765.0	597.6	510.0	464.6	444.3	441.1
66°	1946.1	1928.9	1756.8	1417.3	1043.4	752.5	583.5	495.9	452.1	431.8	428.6
67.5°	1933.5	1917.9	1745.8	1401.7	1021.5	729.0	555.3	472.4	428.6	408.3	406.7
70°	1875.7	1863.1	1686.4	1342.2	969.9	677.4	508.4	427.1	384.8	370.8	366.1
72.5°	1750.5	1736.4	1567.5	1231.1	885.4	607.0	449.0	373.9	339.5	322.3	320.7
75°	1556.5	1550.3	1386.0	1084.1	763.4	522.5	380.1	316.0	287.8	275.3	275.3
77.5°	1303.1	1290.6	1151.4	896.4	627.3	422.4	305.0	256.6	234.7	223.7	225.3
80°	1013.7	1004.3	887.0	672.7	474.0	317.6	228.4	195.5	179.9	173.6	170.5
82.5°	694.6	669.5	591.3	445.8	308.2	214.3	158.0	136.1	128.3	126.7	125.1
85°	361.4	370.8	311.3	236.2	167.4	118.9	95.4	87.6	84.5	86.0	86.0
87.5°	118.9	122.0	93.9	72.0	54.8	42.2	36.0	34.4	29.7	32.9	34.4
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)