

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: P472216

Luminaire Tested: **CCW-VA-4-727-U-T2**

Issue Date: 01/27/2021

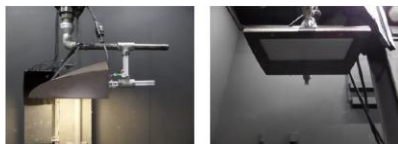
Test Information

Test Method: LM-79-08
Report Number: P472216
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-727-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5201.6 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

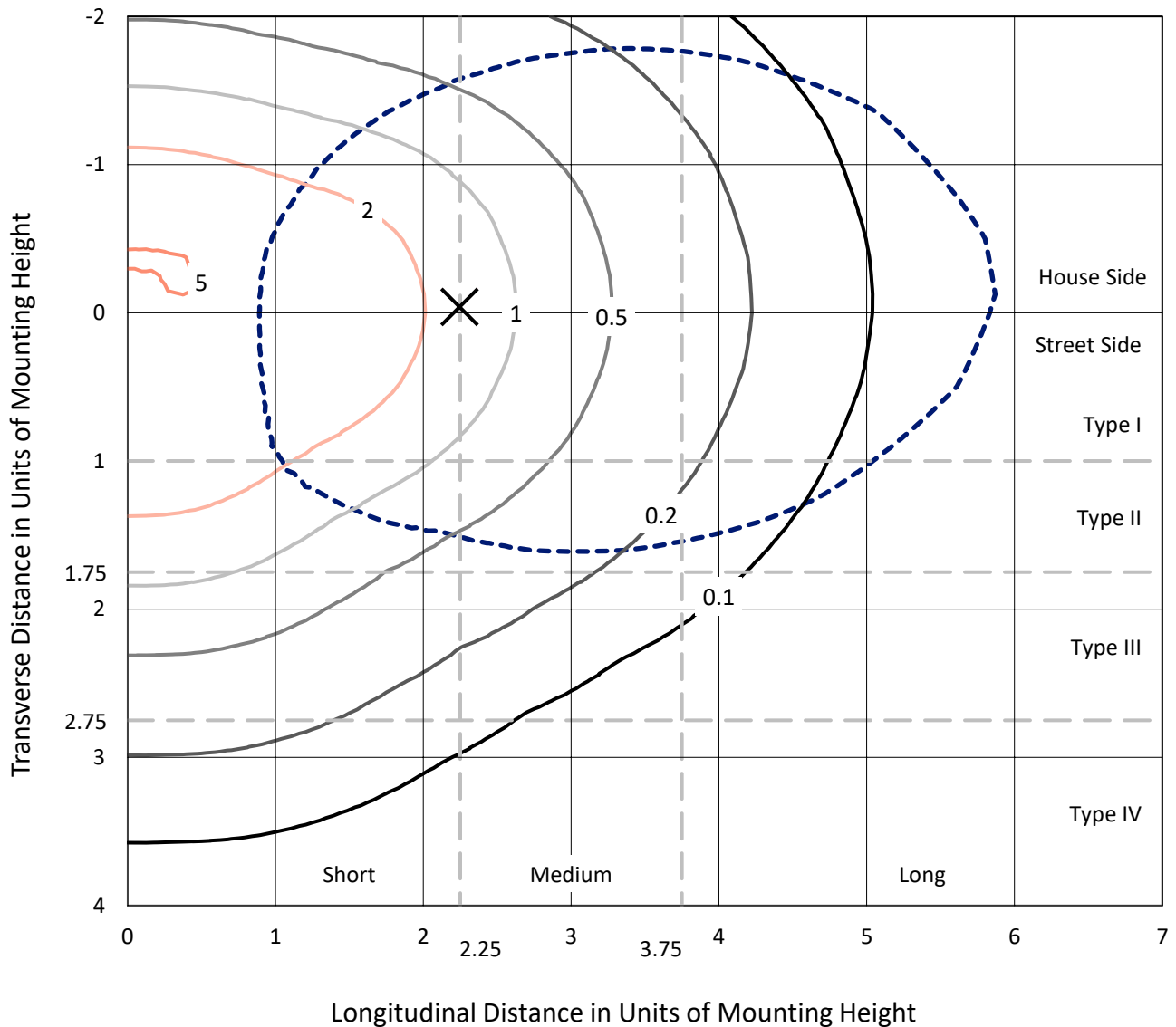
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

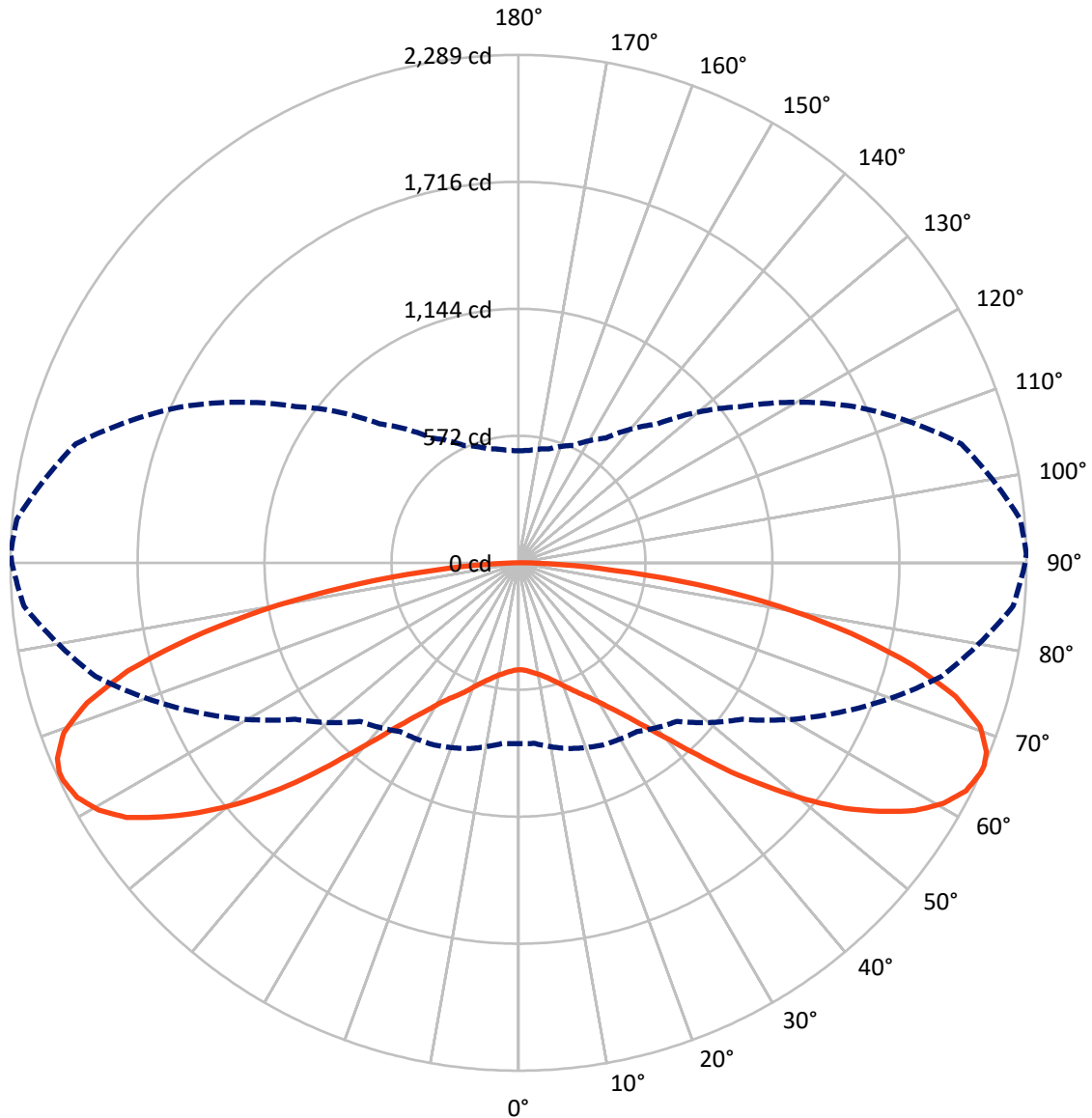
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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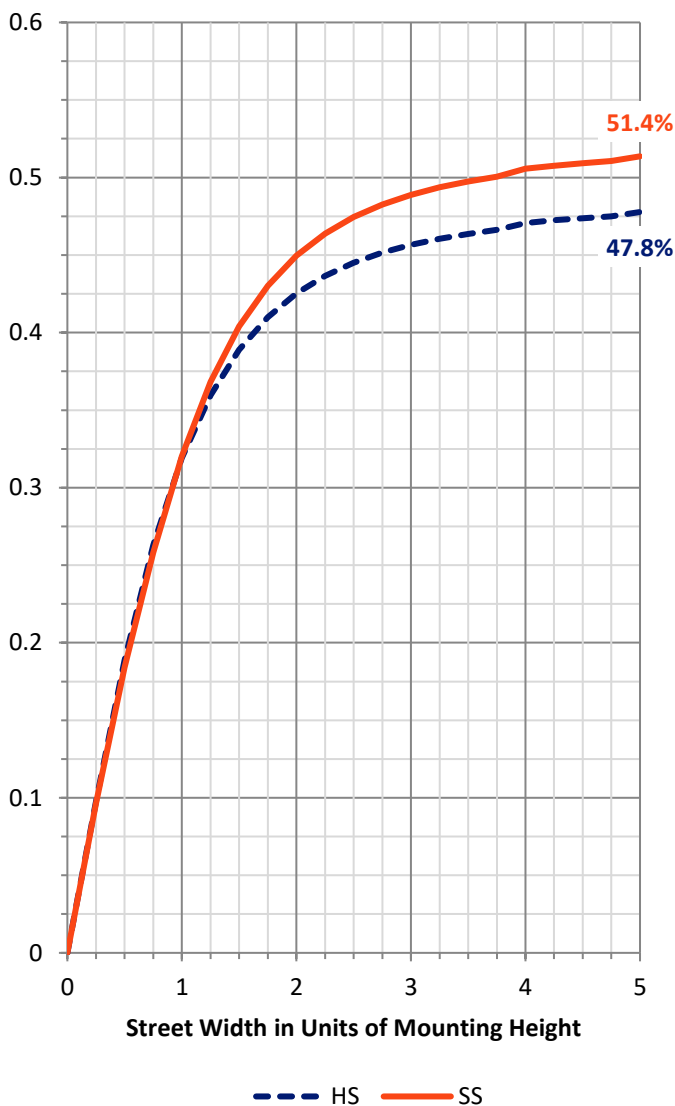
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2510.6	0.0	2510.6
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2691.0	0.0	2691.0
	% Fixture	51.7	0.0	51.7
Total	Lumens	5201.6	0.0	5201.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.9
10°-20°	155.3	3.0
20°-30°	300.3	5.8
30°-40°	492.8	9.5
40°-50°	780.5	15.0
50°-60°	1076.2	20.7
60°-70°	1208.5	23.2
70°-80°	903.2	17.4
80°-90°	237.3	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°	5201.6	100.0
0°-180°	5201.6	100.0

Coefficient of Utilization

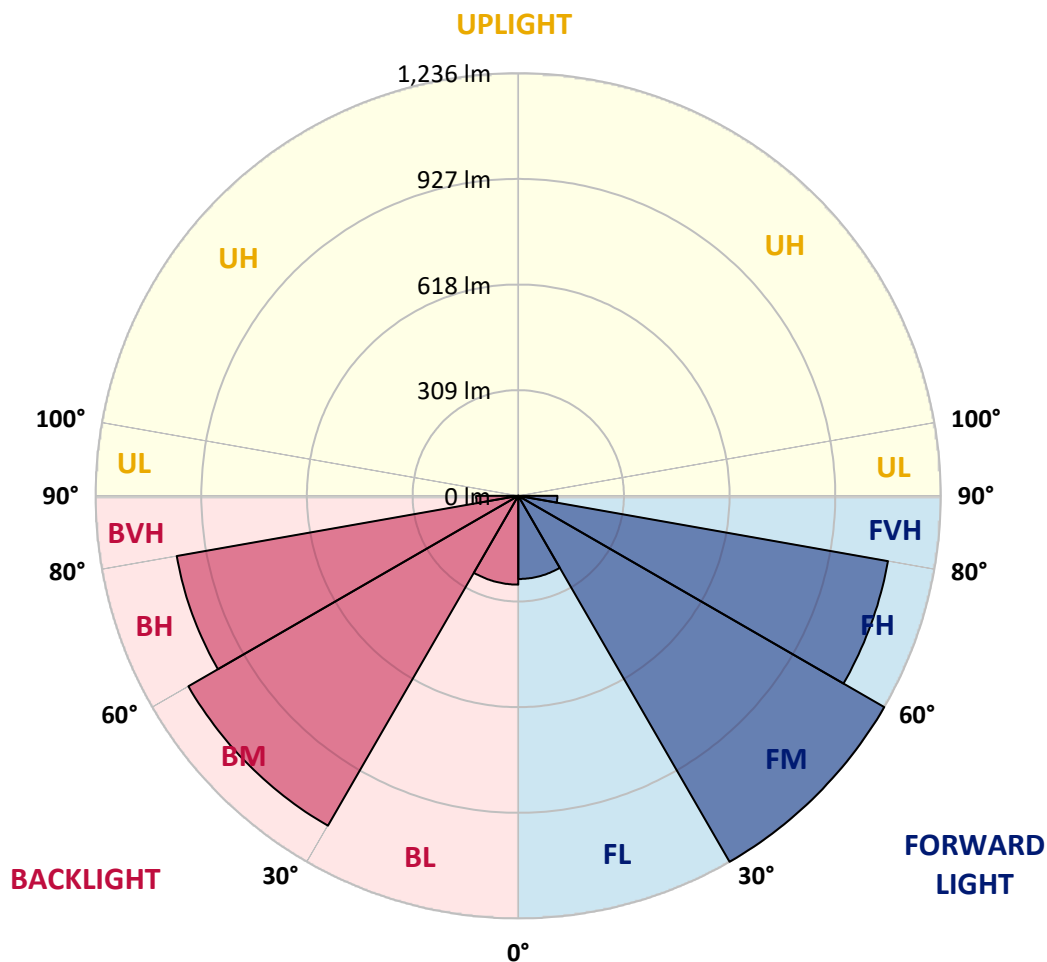


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.2	4.7			
FM (30°-60°)	1235.7	23.8			
FH (60°-80°)	1097.8	21.1			G1/1800
FVH (80°-90°)	114.3	2.2			G2/225
BL (0°-30°)	259.8	5.0	B1/500		
BM (30°-60°)	1113.7	21.4	B2/2500		
BH (60°-80°)	1014.0	19.5	B3/2500		G3/2500
BVH (80°-90°)	123.0	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0
2.5°	483.8	483.8	483.8	483.8	485.7	485.7	485.7	485.7	485.7	483.8	483.8
5°	487.5	487.5	487.5	487.5	489.3	489.3	489.3	489.3	491.2	491.2	491.2
7.5°	491.2	491.2	493.0	493.0	494.9	494.9	496.7	496.7	498.5	500.4	500.4
10°	498.5	498.5	500.4	500.4	504.1	505.9	507.7	507.7	511.4	511.4	511.4
12.5°	507.7	509.6	511.4	513.3	516.9	518.8	520.6	522.5	524.3	526.1	526.1
15°	522.5	520.6	524.3	528.0	529.8	533.5	535.3	537.2	540.9	544.5	544.5
17.5°	533.5	535.3	537.2	540.9	544.5	550.1	553.7	557.4	561.1	564.8	564.8
20°	548.2	546.4	553.7	559.2	562.9	570.3	575.8	583.2	586.8	590.5	592.4
22.5°	561.1	562.9	566.6	574.0	581.3	592.4	603.4	608.9	614.4	618.1	623.6
25°	577.6	579.5	585.0	592.4	603.4	616.3	629.2	636.5	642.0	649.4	654.9
27.5°	594.2	594.2	603.4	614.4	627.3	643.9	658.6	665.9	675.1	684.3	688.0
30°	612.6	612.6	621.8	636.5	654.9	673.3	686.2	700.9	713.8	723.0	730.3
32.5°	640.2	640.2	651.2	665.9	686.2	708.3	726.7	741.4	757.9	774.5	789.2
35°	671.5	673.3	688.0	706.4	730.3	757.9	774.5	794.7	813.1	840.7	855.4
37.5°	721.1	723.0	739.5	763.4	787.4	816.8	844.4	868.3	895.9	927.2	938.2
40°	794.7	800.2	816.8	827.8	849.9	872.0	912.5	952.9	1000.8	1043.1	1050.4
42.5°	927.2	921.7	910.6	906.9	912.5	936.4	980.5	1043.1	1127.7	1181.0	1181.0
45°	978.7	978.7	980.5	976.8	973.2	989.7	1041.2	1140.6	1260.2	1333.7	1348.5
47.5°	987.9	989.7	1006.3	1021.0	1024.7	1043.1	1105.6	1236.2	1396.3	1504.8	1514.0
50°	987.9	991.6	1013.6	1039.4	1057.8	1083.5	1160.8	1320.9	1530.6	1655.7	1679.6
52.5°	984.2	987.9	1011.8	1043.1	1072.5	1109.3	1208.6	1409.2	1650.2	1819.4	1830.4
55°	975.0	978.7	1008.1	1041.2	1074.3	1124.0	1247.3	1484.6	1766.0	1955.5	1975.8
57.5°	964.0	969.5	1000.8	1035.7	1067.0	1127.7	1273.0	1543.5	1859.9	2076.9	2113.7
60°	941.9	951.1	986.0	1021.0	1050.4	1114.8	1285.9	1589.4	1929.8	2165.3	2202.0
62.5°	897.7	906.9	945.6	984.2	1013.6	1083.5	1278.5	1611.5	1970.2	2220.4	2259.1
65°	842.6	846.2	888.5	929.0	958.4	1032.0	1247.3	1607.8	1979.4	2238.8	2283.0
66°	815.0	816.8	866.5	905.1	929.0	1010.0	1228.9	1595.0	1973.9	2237.0	2283.0
67.5°	765.3	774.5	816.8	857.3	884.9	960.3	1184.7	1565.5	1951.9	2218.6	2266.4
70°	678.8	686.2	721.1	761.6	791.0	862.8	1089.1	1479.1	1870.9	2143.2	2198.4
72.5°	585.0	590.5	627.3	656.7	675.1	752.4	973.2	1337.4	1729.3	2001.5	2054.9
75°	485.7	489.3	522.5	542.7	559.2	627.3	818.6	1155.3	1506.7	1771.6	1841.5
77.5°	382.6	384.5	412.1	430.5	430.5	489.3	649.4	936.4	1236.2	1480.9	1532.4
80°	281.5	279.6	296.2	305.4	310.9	349.5	467.3	688.0	941.9	1133.2	1182.9
82.5°	184.0	182.1	193.2	196.8	196.8	220.8	294.3	436.0	618.1	769.0	798.4
85°	97.5	101.2	99.3	99.3	99.3	108.5	147.2	228.1	329.3	412.1	432.3
87.5°	16.6	16.6	16.6	18.4	22.1	29.4	38.6	64.4	93.8	126.9	143.5
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°	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0	482.0
2.5°	483.8	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
5°	491.2	491.2	491.2	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
7.5°	500.4	500.4	502.2	502.2	502.2	504.1	504.1	502.2	502.2	502.2	502.2
10°	511.4	511.4	513.3	515.1	515.1	516.9	516.9	515.1	515.1	513.3	513.3
12.5°	526.1	528.0	529.8	531.7	533.5	533.5	531.7	529.8	528.0	526.1	526.1
15°	544.5	546.4	548.2	551.9	551.9	551.9	550.1	548.2	544.5	542.7	544.5
17.5°	566.6	568.4	572.1	574.0	575.8	574.0	574.0	572.1	572.1	570.3	570.3
20°	594.2	596.0	601.6	603.4	603.4	605.2	610.8	614.4	620.0	621.8	621.8
22.5°	621.8	625.5	631.0	638.4	642.0	649.4	651.2	654.9	653.1	647.6	647.6
25°	654.9	658.6	669.6	678.8	686.2	689.9	686.2	680.7	671.5	664.1	662.3
27.5°	689.9	695.4	711.9	724.8	728.5	724.8	710.1	697.2	686.2	677.0	673.3
30°	734.0	743.2	761.6	769.0	767.1	752.4	730.3	713.8	697.2	686.2	684.3
32.5°	789.2	798.4	815.0	816.8	805.8	778.2	748.7	726.7	706.4	693.5	691.7
35°	855.4	864.6	873.8	868.3	837.0	802.1	765.3	734.0	713.8	699.1	699.1
37.5°	940.1	945.6	945.6	918.0	870.1	824.2	778.2	741.4	719.3	704.6	702.7
40°	1050.4	1048.6	1022.8	969.5	906.9	844.4	787.4	748.7	721.1	706.4	704.6
42.5°	1182.9	1170.0	1114.8	1028.4	941.9	862.8	798.4	750.6	719.3	704.6	702.7
45°	1344.8	1322.7	1223.4	1096.4	978.7	879.3	803.9	748.7	713.8	697.2	695.4
47.5°	1504.8	1491.9	1355.8	1168.2	1015.5	897.7	807.6	743.2	702.7	678.8	678.8
50°	1674.1	1642.8	1488.3	1254.6	1054.1	910.6	807.6	734.0	684.3	658.6	654.9
52.5°	1837.8	1806.5	1622.6	1341.1	1096.4	923.5	803.9	721.1	667.8	640.2	636.5
55°	1977.6	1951.9	1753.2	1438.6	1140.6	932.7	798.4	706.4	651.2	625.5	621.8
57.5°	2106.4	2080.6	1867.2	1521.4	1182.9	938.2	785.5	688.0	631.0	605.2	603.4
60°	2200.2	2180.0	1964.7	1598.6	1217.8	938.2	767.1	665.9	608.9	583.2	581.3
62.5°	2262.8	2242.5	2034.6	1650.2	1239.9	925.3	739.5	636.5	581.3	557.4	551.9
65°	2286.7	2268.3	2065.9	1670.4	1236.2	899.6	702.7	599.7	546.4	522.5	518.8
66°	2288.5	2268.3	2065.9	1666.7	1227.0	884.9	686.2	583.2	531.7	507.7	504.1
67.5°	2273.8	2255.4	2053.0	1648.3	1201.3	857.3	653.1	555.6	504.1	480.1	478.3
70°	2205.7	2191.0	1983.1	1578.4	1140.6	796.6	597.9	502.2	452.6	436.0	430.5
72.5°	2058.6	2042.0	1843.3	1447.8	1041.2	713.8	528.0	439.7	399.2	379.0	377.1
75°	1830.4	1823.1	1629.9	1274.9	897.7	614.4	447.0	371.6	338.5	323.8	323.8
77.5°	1532.4	1517.7	1354.0	1054.1	737.7	496.7	358.7	301.7	275.9	263.1	264.9
80°	1192.1	1181.0	1043.1	791.0	557.4	373.4	268.6	230.0	211.6	204.2	200.5
82.5°	816.8	787.4	695.4	524.3	362.4	252.0	185.8	160.0	150.9	149.0	147.2
85°	425.0	436.0	366.1	277.8	196.8	139.8	112.2	103.0	99.3	101.2	101.2
87.5°	139.8	143.5	110.4	84.6	64.4	49.7	42.3	40.5	35.0	38.6	40.5
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)