

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: P674885

Luminaire Tested: **CCW-SA-2B-830-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674885
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5474 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

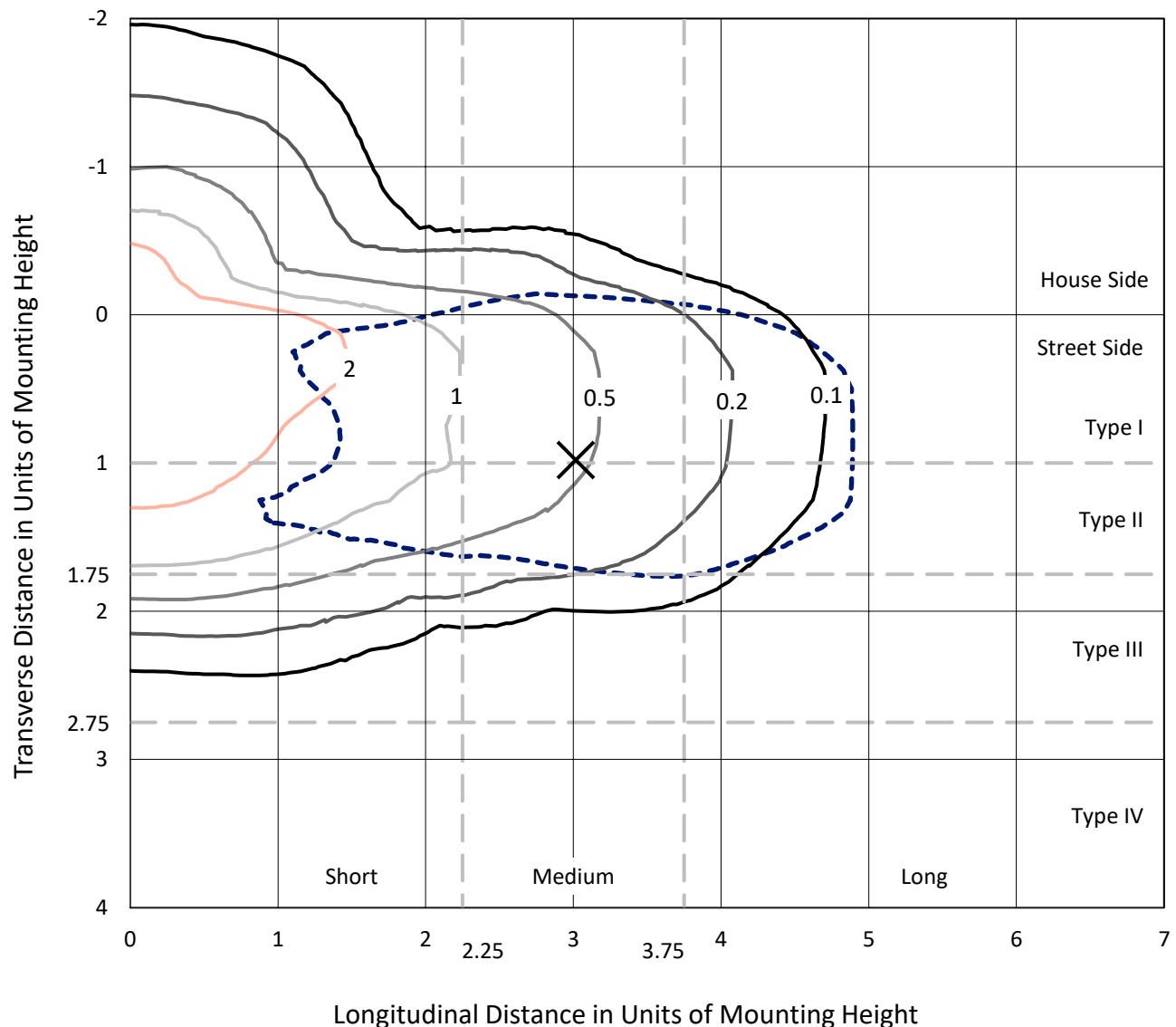
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

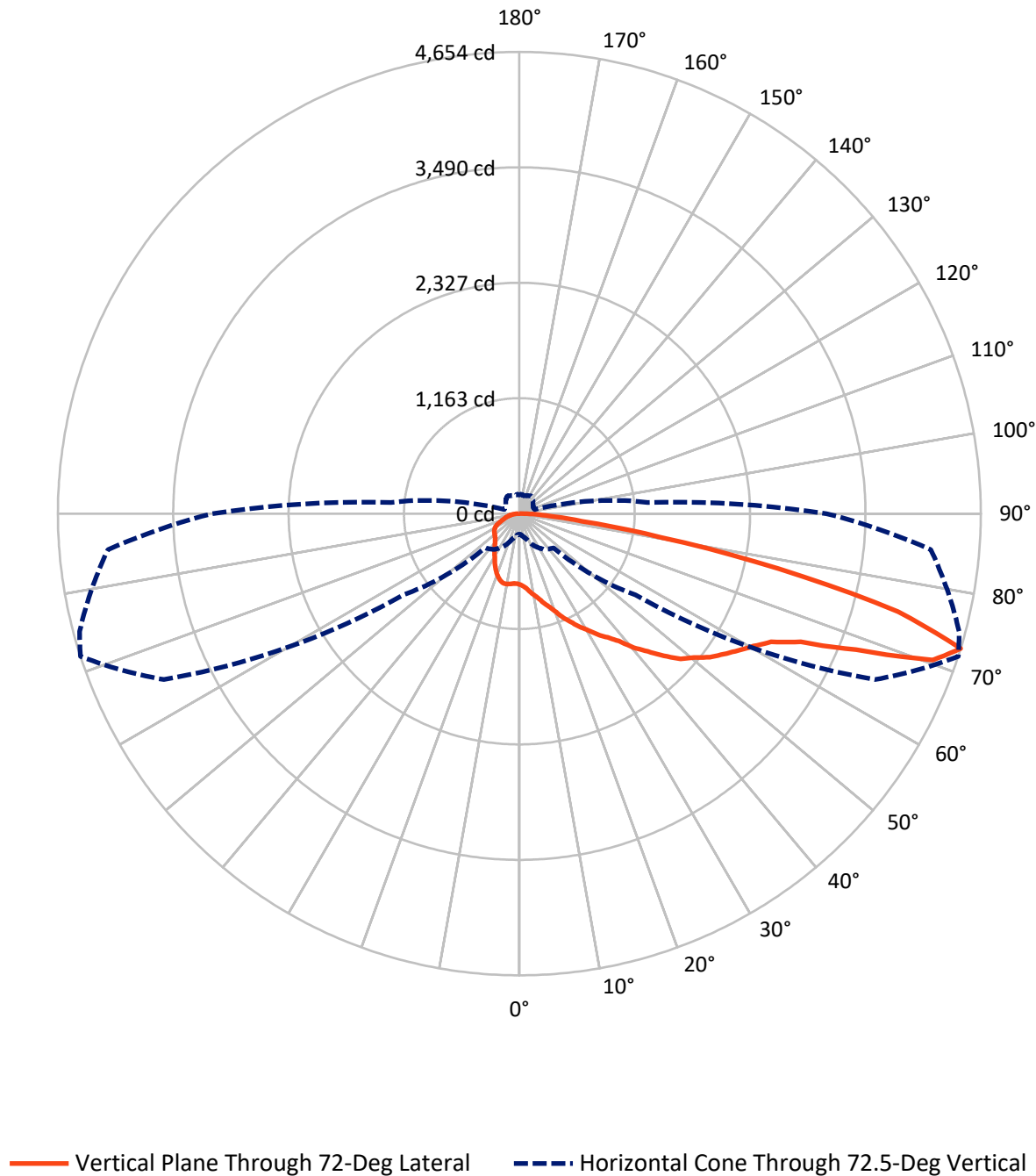


Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.0	0.0	1152.0
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	4321.9	0.0	4321.9
	% Fixture	79.0	0.0	79.0
Total	Lumens	5474.0	0.0	5474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.3
10°-20°	219.7	4.0
20°-30°	380.1	6.9
30°-40°	561.5	10.3
40°-50°	834.9	15.3
50°-60°	1144.7	20.9
60°-70°	1241.6	22.7
70°-80°	875.4	16.0
80°-90°	145.4	2.7
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°	5474.0	100.0
0°-180°	5474.0	100.0

Coefficient of Utilization



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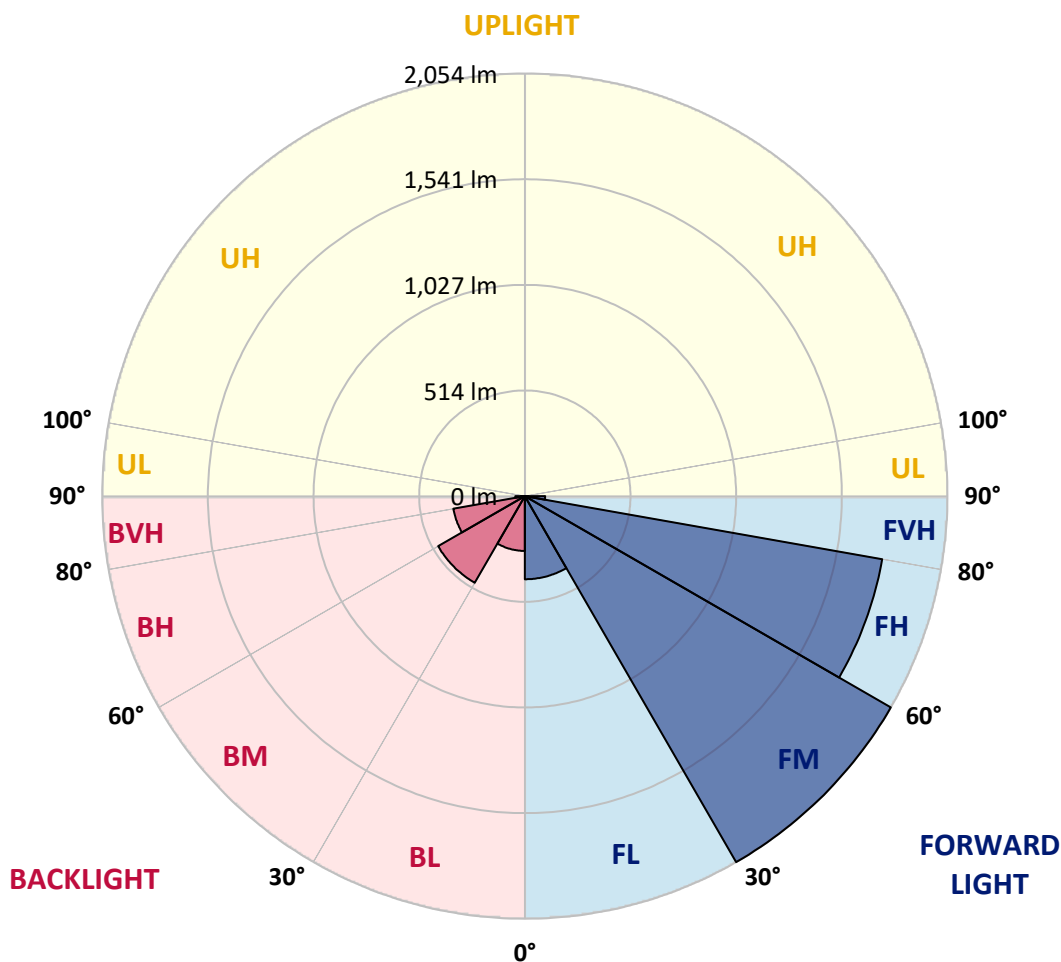
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.2	7.4			
FM	(30°-60°)	2054.5	37.5			
FH	(60°-80°)	1764.1	32.2			G1/1800
FVH	(80°-90°)	99.2	1.8			G1/100
BL	(0°-30°)	266.3	4.9	B1/500		
BM	(30°-60°)	486.6	8.9	B1/1000		
BH	(60°-80°)	352.9	6.4	B1/500		G1/500
BVH	(80°-90°)	46.3	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1
2.5°	771.6	771.6	765.6	763.5	763.5	747.4	749.4	739.3	731.2	731.2	723.1
5°	812.0	808.0	808.0	808.0	797.9	791.8	789.8	771.6	759.5	759.5	735.3
7.5°	822.1	824.1	826.1	836.2	830.2	834.2	830.2	810.0	799.9	789.8	767.6
10°	828.2	832.2	832.2	846.3	846.3	856.4	862.5	854.4	836.2	826.1	789.8
12.5°	842.3	836.2	844.3	854.4	864.5	882.7	900.9	892.8	880.7	868.6	828.2
15°	842.3	844.3	850.4	866.5	882.7	900.9	933.2	945.3	939.3	917.0	874.6
17.5°	818.1	812.0	840.3	870.6	900.9	923.1	965.5	993.8	989.8	981.7	917.0
20°	820.1	826.1	836.2	862.5	911.0	951.4	1003.9	1050.4	1060.5	1056.4	973.6
22.5°	856.4	858.5	868.6	880.7	919.1	971.6	1050.4	1125.1	1143.3	1133.2	1036.2
25°	892.8	909.0	909.0	917.0	931.2	985.7	1080.7	1185.7	1212.0	1214.0	1100.9
27.5°	951.4	955.4	967.5	971.6	983.7	1016.0	1115.0	1230.1	1290.7	1282.7	1159.4
30°	1020.1	1022.1	1030.2	1026.1	1028.1	1068.5	1147.3	1280.6	1363.5	1365.5	1222.1
32.5°	1100.9	1117.0	1121.1	1094.8	1098.8	1108.9	1197.8	1341.2	1454.3	1440.2	1276.6
35°	1220.0	1226.1	1214.0	1201.9	1171.6	1165.5	1250.3	1401.8	1533.1	1549.3	1357.4
37.5°	1367.5	1383.6	1367.5	1302.9	1270.5	1246.3	1315.0	1468.5	1628.1	1682.6	1438.2
40°	1504.8	1502.8	1486.7	1428.1	1371.5	1353.4	1407.9	1561.4	1775.5	1828.0	1555.3
42.5°	1615.9	1609.9	1599.8	1555.3	1502.8	1472.5	1514.9	1658.4	1898.7	1999.7	1690.7
45°	1712.9	1704.8	1706.8	1656.3	1605.8	1622.0	1622.0	1769.5	2044.2	2169.4	1846.2
47.5°	1803.8	1807.8	1801.8	1763.4	1725.0	1767.4	1745.2	1896.7	2187.6	2327.0	1977.5
50°	1908.8	1916.9	1896.7	1872.5	1838.1	1880.6	1852.3	2015.9	2280.5	2470.4	2135.1
52.5°	2007.8	2015.9	2034.1	2003.8	1969.4	2003.8	1939.1	2127.0	2403.7	2609.7	2256.3
55°	2032.0	2028.0	2129.0	2161.3	2179.5	2076.5	2015.9	2221.9	2500.7	2698.6	2393.6
57.5°	1920.9	1931.0	2068.4	2161.3	2355.2	2266.4	2102.7	2333.0	2601.7	2815.8	2520.9
60°	1644.2	1650.3	1822.0	2042.1	2324.9	2444.1	2337.1	2476.4	2712.8	2914.8	2664.3
62.5°	1098.8	1145.3	1359.4	1704.8	2110.8	2492.6	2710.7	2718.8	2848.1	3040.0	2860.2
65°	579.7	601.9	769.6	1048.3	1599.8	2324.9	3062.2	3199.6	3118.8	3270.3	3143.0
67.5°	379.7	387.8	478.7	636.3	923.1	1696.7	3102.6	4033.8	3662.1	3708.6	3595.5
70°	282.8	286.8	353.5	470.6	571.6	906.9	2543.1	4423.6	4421.6	4298.4	4132.8
72.5°	208.1	214.1	260.6	359.5	440.3	488.8	1430.1	3957.0	4653.9	4591.3	4165.1
75°	163.6	167.7	191.9	278.7	355.5	321.2	725.2	2930.9	3946.9	4247.9	3811.6
77.5°	133.3	137.4	151.5	202.0	284.8	248.5	347.4	1890.7	2676.4	3058.2	2916.8
80°	111.1	111.1	121.2	143.4	220.2	187.9	206.0	1062.5	1442.2	1591.7	1323.1
82.5°	94.9	92.9	101.0	105.0	163.6	135.3	133.3	480.7	634.3	672.6	496.9
85°	60.6	62.6	94.9	90.9	107.1	92.9	74.7	228.3	298.9	305.0	185.8
87.5°	24.2	24.2	40.4	50.5	60.6	56.6	36.4	103.0	131.3	131.3	52.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1
2.5°	721.1	713.0	707.0	702.9	692.8	682.7	684.8	682.7	674.7	670.6	670.6
5°	729.2	721.1	711.0	694.9	684.8	672.6	676.7	668.6	660.5	666.6	656.5
7.5°	749.4	735.3	721.1	696.9	680.7	662.5	654.5	650.4	644.4	640.3	640.3
10°	777.7	757.5	731.2	694.9	668.6	640.3	636.3	628.2	622.1	622.1	620.1
12.5°	806.0	783.7	739.3	680.7	636.3	616.1	614.1	616.1	620.1	622.1	624.2
15°	842.3	806.0	737.3	654.5	610.0	601.9	612.0	620.1	628.2	636.3	634.3
17.5°	876.6	834.2	719.1	622.1	587.8	589.8	608.0	624.2	640.3	648.4	650.4
20°	923.1	860.5	692.8	583.8	565.6	583.8	608.0	628.2	646.4	656.5	658.5
22.5°	975.6	890.8	658.5	549.4	547.4	565.6	589.8	620.1	640.3	658.5	656.5
25°	1022.1	911.0	614.1	521.1	525.2	537.3	565.6	597.9	618.1	638.3	632.2
27.5°	1052.4	915.0	567.6	500.9	500.9	513.1	539.3	559.5	577.7	593.9	595.9
30°	1086.7	906.9	515.1	474.7	474.7	490.8	500.9	513.1	523.2	527.2	531.2
32.5°	1127.1	888.8	482.8	454.5	454.5	466.6	472.7	468.6	466.6	456.5	462.6
35°	1165.5	862.5	446.4	428.2	436.3	442.4	440.3	428.2	416.1	397.9	391.9
37.5°	1212.0	836.2	414.1	399.9	414.1	416.1	416.1	402.0	385.8	363.6	363.6
40°	1282.7	816.1	387.8	381.8	395.9	393.9	383.8	373.7	379.7	367.6	367.6
42.5°	1357.4	808.0	363.6	365.6	371.7	373.7	363.6	351.5	375.7	361.6	363.6
45°	1450.3	814.0	347.4	345.4	359.5	357.5	351.5	341.4	349.4	313.1	303.0
47.5°	1537.2	826.1	339.3	331.3	347.4	351.5	343.4	321.2	309.0	286.8	282.8
50°	1615.9	852.4	331.3	315.1	331.3	339.3	325.2	301.0	286.8	272.7	272.7
52.5°	1690.7	890.8	327.2	296.9	311.1	321.2	313.1	288.8	272.7	266.6	260.6
55°	1767.4	925.1	321.2	284.8	288.8	309.0	307.0	274.7	258.6	258.6	256.5
57.5°	1876.5	971.6	313.1	264.6	272.7	294.9	294.9	268.7	250.5	252.5	254.5
60°	1987.6	1026.1	305.0	244.4	250.5	280.8	284.8	260.6	244.4	246.4	244.4
62.5°	2165.4	1127.1	288.8	220.2	232.3	262.6	272.7	250.5	236.3	240.4	240.4
65°	2434.0	1300.8	254.5	200.0	214.1	246.4	260.6	240.4	224.2	236.3	232.3
67.5°	2866.3	1539.2	214.1	183.8	202.0	230.3	246.4	228.3	214.1	232.3	226.2
70°	3254.1	1656.3	183.8	169.7	183.8	212.1	230.3	216.1	202.0	220.2	212.1
72.5°	3096.5	1298.8	159.6	153.5	167.7	191.9	214.1	200.0	185.8	195.9	187.9
75°	2672.4	1034.2	139.4	137.4	149.5	173.7	195.9	185.8	171.7	175.7	171.7
77.5°	2026.0	854.4	119.2	117.2	127.3	155.5	175.7	167.7	153.5	151.5	151.5
80°	904.9	420.1	99.0	99.0	105.0	133.3	149.5	145.4	131.3	129.3	127.3
82.5°	296.9	159.6	80.8	76.8	84.8	111.1	133.3	129.3	115.1	111.1	107.1
85°	119.2	76.8	58.6	58.6	66.7	92.9	119.2	111.1	92.9	82.8	82.8
87.5°	40.4	32.3	30.3	30.3	42.4	62.6	88.9	74.7	66.7	58.6	60.6
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)