

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: P675317

Luminaire Tested: **CCW-SA-2B-830-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675317
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-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4W distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5536.1 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

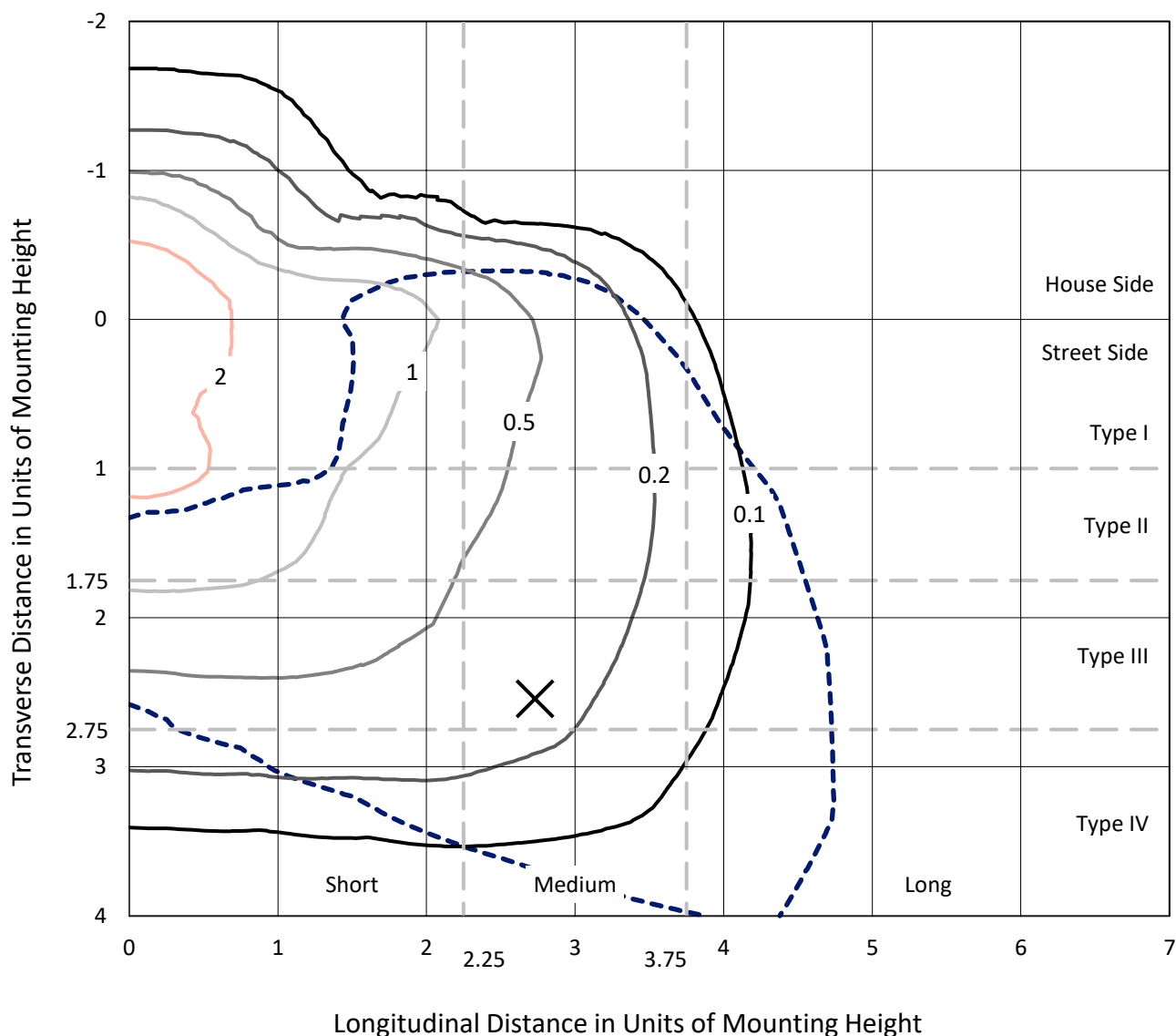
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

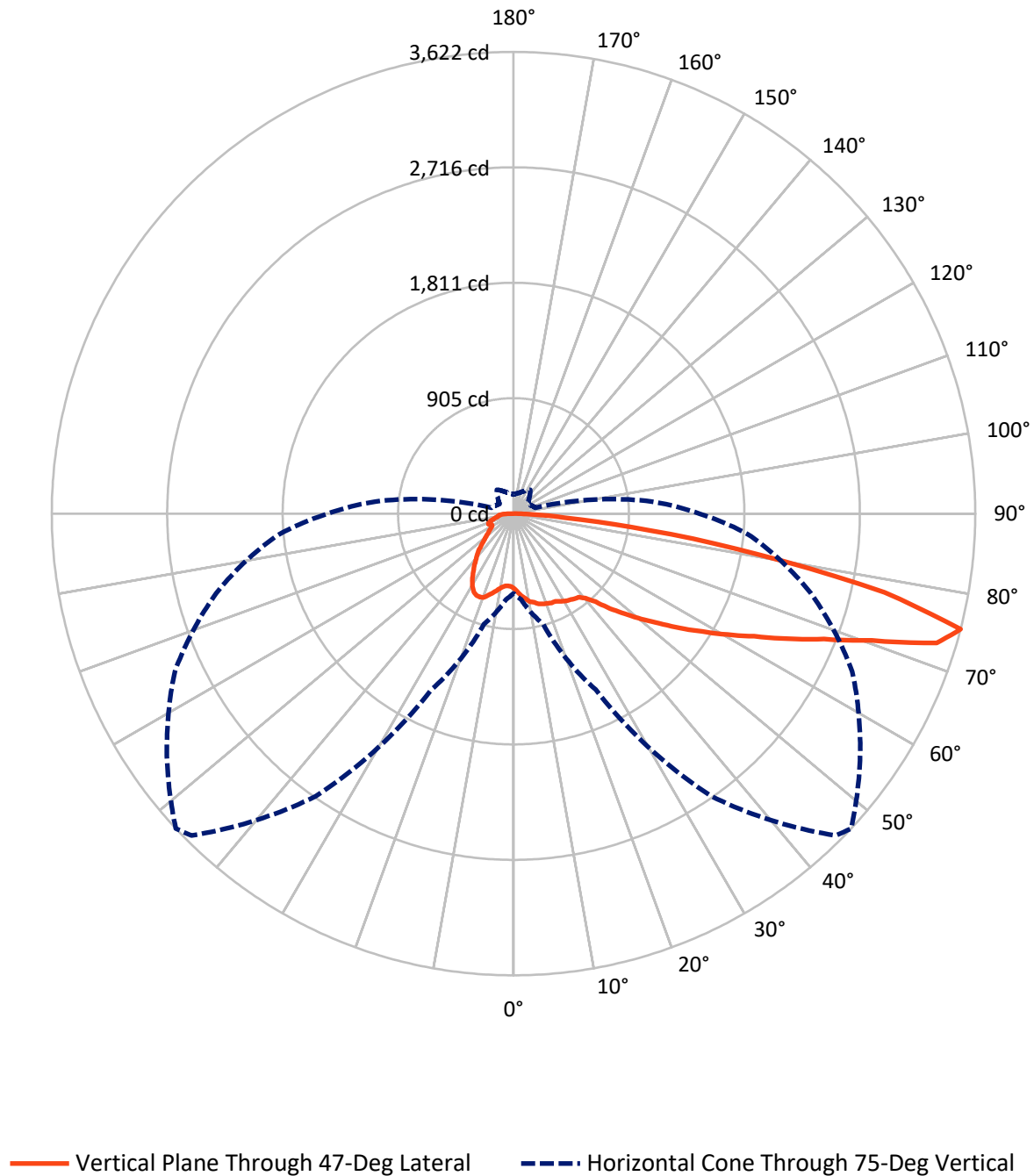
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.0	0.0	1324.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4212.2	0.0	4212.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	5536.1	0.0	5536.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.1
10°-20°	197.3	3.6
20°-30°	338.0	6.1
30°-40°	472.9	8.5
40°-50°	659.4	11.9
50°-60°	985.6	17.8
60°-70°	1421.0	25.7
70°-80°	1209.6	21.8
80°-90°	192.7	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°	5536.1	100.0
0°-180°	5536.1	100.0



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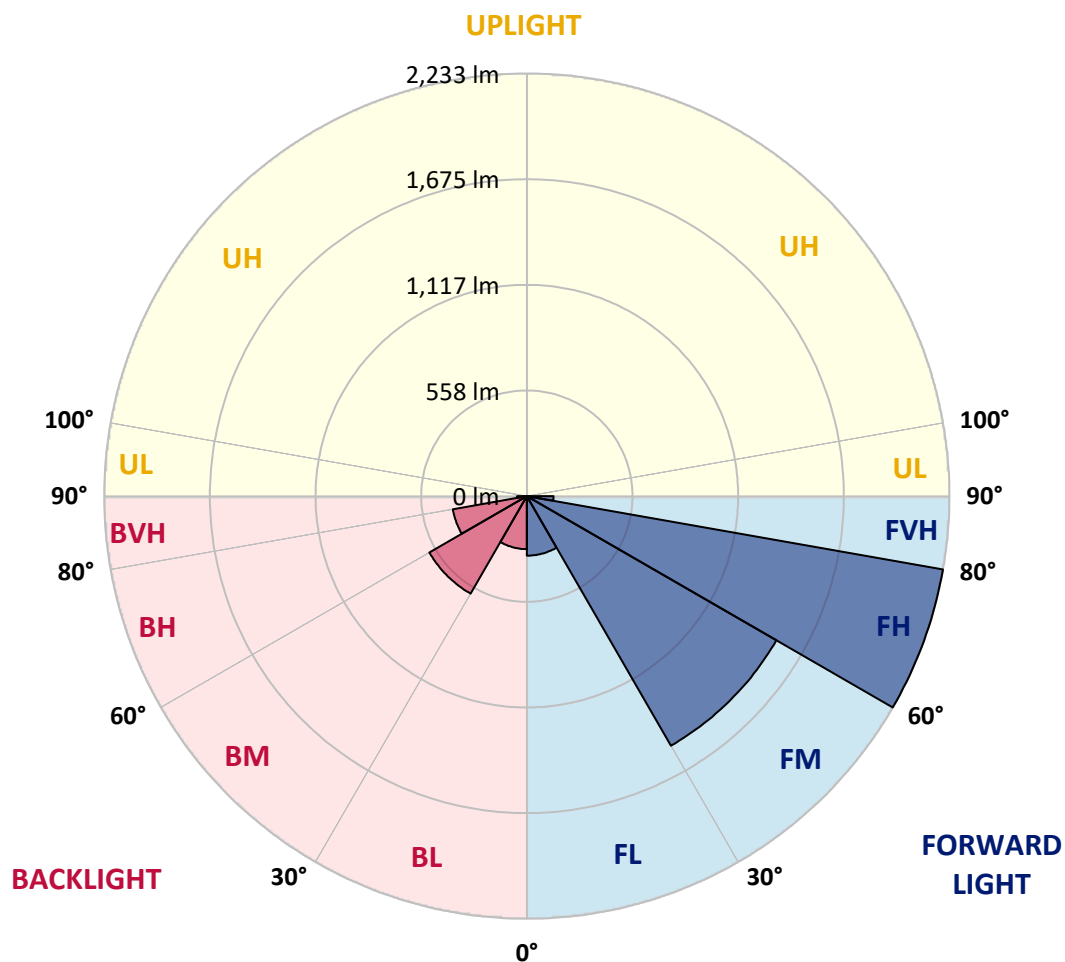
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.5	5.7			
FM	(30°-60°)	1522.9	27.5			
FH	(60°-80°)	2233.5	40.3			G2/5000
FVH	(80°-90°)	141.2	2.6			G2/225
BL	(0°-30°)	280.2	5.1	B1/500		
BM	(30°-60°)	595.0	10.7	B1/1000		
BH	(60°-80°)	397.2	7.2	B1/500		G1/500
BVH	(80°-90°)	51.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8
2.5°	630.2	632.3	632.3	628.2	624.2	616.1	616.1	608.0	604.0	593.9	589.8
5°	688.8	682.8	676.7	674.7	664.6	650.4	648.4	640.3	618.1	608.0	593.9
7.5°	731.2	729.2	727.2	719.1	700.9	678.7	672.7	660.5	638.3	618.1	602.0
10°	765.6	773.7	765.6	747.4	729.2	705.0	703.0	680.7	660.5	636.3	616.1
12.5°	804.0	806.0	791.8	769.6	741.3	721.1	713.1	705.0	682.8	662.6	632.3
15°	830.2	826.2	816.1	785.8	753.5	733.3	735.3	725.2	700.9	686.8	654.5
17.5°	830.2	830.2	814.1	791.8	763.6	745.4	745.4	739.3	723.2	703.0	680.7
20°	814.1	814.1	804.0	791.8	759.5	755.5	751.4	747.4	747.4	729.2	696.9
22.5°	793.9	789.8	793.9	773.7	751.4	755.5	761.5	759.5	753.5	737.3	715.1
25°	773.7	775.7	779.7	765.6	745.4	763.6	761.5	771.6	767.6	755.5	737.3
27.5°	771.6	775.7	777.7	763.6	755.5	771.6	779.7	789.8	791.8	779.7	757.5
30°	801.9	799.9	797.9	779.7	773.7	787.8	795.9	810.0	822.1	795.9	777.7
32.5°	880.7	868.6	856.5	808.0	789.8	799.9	808.0	828.2	830.2	816.1	789.8
35°	1006.0	997.9	957.5	872.6	822.1	812.0	820.1	834.3	838.3	828.2	808.0
37.5°	1149.4	1145.3	1088.8	985.8	888.8	840.3	832.2	852.4	868.6	846.4	818.1
40°	1290.8	1274.6	1234.2	1133.2	973.6	882.7	872.6	882.7	888.8	872.6	854.5
42.5°	1418.0	1399.9	1389.8	1288.8	1084.7	953.4	945.4	921.1	939.3	919.1	894.9
45°	1525.1	1521.0	1517.0	1430.1	1212.0	1068.6	1062.5	999.9	1020.1	1003.9	969.6
47.5°	1601.8	1620.0	1614.0	1565.5	1357.4	1191.8	1173.6	1092.8	1123.1	1107.0	1072.6
50°	1692.7	1702.8	1696.8	1664.5	1492.8	1333.2	1298.9	1216.0	1250.4	1248.4	1230.2
52.5°	1773.5	1803.8	1769.5	1767.5	1686.7	1486.7	1428.1	1349.4	1405.9	1428.1	1426.1
55°	1868.5	1892.7	1882.6	1878.6	1860.4	1636.2	1583.7	1488.7	1583.7	1616.0	1644.3
57.5°	1949.3	1947.3	1985.6	2032.1	2054.3	1807.9	1745.3	1634.2	1777.6	1813.9	1892.7
60°	1985.6	2020.0	2084.6	2201.8	2264.4	1991.7	1927.1	1838.2	1973.5	2001.8	2147.2
62.5°	2009.9	2040.2	2165.4	2363.4	2399.7	2179.6	2119.0	2030.1	2187.6	2207.8	2424.0
65°	1943.2	1971.5	2220.0	2424.0	2553.3	2381.6	2367.4	2274.5	2401.8	2413.9	2714.9
67.5°	1866.5	1896.8	2173.5	2500.7	2757.3	2650.2	2628.0	2516.9	2613.9	2599.7	2937.1
70°	1731.1	1771.5	2054.3	2567.4	2983.5	3025.9	2981.5	2823.9	2834.0	2700.7	2947.2
72.5°	1319.1	1345.3	1607.9	2302.8	3088.6	3547.1	3470.3	3155.2	3040.1	2720.9	2601.7
75°	626.2	674.7	896.9	1523.1	2706.8	3571.3	3621.8	3318.8	2931.0	2413.9	1844.2
77.5°	181.8	181.8	272.7	646.4	1696.8	2878.5	2973.4	2817.9	2417.9	1787.7	969.6
80°	99.0	105.0	143.4	228.3	745.4	1816.0	1953.3	1868.5	1424.1	707.0	250.5
82.5°	56.6	58.6	94.9	137.4	339.4	987.8	1068.6	969.6	541.4	214.1	117.2
85°	32.3	34.3	54.5	90.9	202.0	363.6	395.9	343.4	218.2	143.4	58.6
87.5°	16.2	16.2	26.3	42.4	103.0	103.0	101.0	123.2	131.3	86.9	26.3
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°	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8
2.5°	587.8	585.8	585.8	577.7	575.7	569.6	569.6	565.6	563.6	569.6	569.6
5°	589.8	579.7	577.7	569.6	571.7	567.6	575.7	571.7	569.6	569.6	567.6
7.5°	593.9	583.8	575.7	569.6	567.6	573.7	583.8	583.8	595.9	589.8	589.8
10°	604.0	597.9	587.8	583.8	583.8	589.8	602.0	610.0	620.1	620.1	614.1
12.5°	628.2	618.1	606.0	599.9	608.0	614.1	626.2	634.3	646.4	650.4	646.4
15°	646.4	636.3	632.3	628.2	634.3	642.4	652.5	660.5	674.7	678.7	676.7
17.5°	670.6	658.5	656.5	658.5	662.6	668.6	674.7	680.7	690.8	690.8	690.8
20°	682.8	678.7	676.7	682.8	690.8	698.9	694.9	690.8	688.8	692.9	690.8
22.5°	705.0	700.9	703.0	709.0	709.0	705.0	698.9	684.8	680.7	684.8	680.7
25°	725.2	721.1	721.1	717.1	715.1	700.9	688.8	676.7	662.6	668.6	666.6
27.5°	745.4	743.4	743.4	727.2	707.0	682.8	666.6	652.5	644.4	654.5	648.4
30°	769.6	771.6	761.5	723.2	674.7	648.4	630.2	628.2	626.2	632.3	630.2
32.5°	791.8	793.9	777.7	717.1	650.4	599.9	581.8	583.8	593.9	604.0	614.1
35°	804.0	814.1	793.9	696.9	602.0	545.4	525.2	543.4	561.6	575.7	585.8
37.5°	826.2	852.4	818.1	674.7	559.5	496.9	482.8	488.8	511.1	533.3	543.4
40°	858.5	888.8	824.2	632.3	503.0	448.4	440.4	442.4	450.5	464.6	474.7
42.5°	915.1	947.4	830.2	577.7	446.4	418.1	395.9	389.9	383.8	383.8	381.8
45°	997.9	1028.2	822.1	509.0	389.9	369.7	353.5	339.4	323.2	296.9	301.0
47.5°	1119.1	1143.3	828.2	448.4	337.3	321.2	309.1	292.9	268.7	240.4	238.4
50°	1302.9	1266.5	820.1	385.8	299.0	284.8	274.7	252.5	224.2	204.0	202.0
52.5°	1517.0	1444.3	812.0	333.3	266.6	254.5	246.4	222.2	195.9	185.8	183.8
55°	1775.6	1670.5	824.2	286.8	242.4	232.3	224.2	202.0	181.8	173.7	171.7
57.5°	2080.6	1914.9	890.8	250.5	216.1	212.1	210.1	191.9	173.7	167.7	165.6
60°	2367.4	2149.3	935.3	224.2	191.9	195.9	200.0	191.9	171.7	167.7	167.7
62.5°	2607.8	2343.2	864.6	202.0	179.8	191.9	210.1	204.0	195.9	200.0	195.9
65°	2819.9	2409.8	646.4	189.9	173.7	202.0	232.3	230.3	212.1	216.1	214.1
67.5°	2856.3	2329.0	422.2	179.8	169.7	222.2	260.6	236.3	200.0	200.0	193.9
70°	2704.8	2112.9	282.8	169.7	167.7	222.2	266.6	222.2	187.9	187.9	179.8
72.5°	2220.0	1688.7	218.2	159.6	153.5	198.0	252.5	210.1	175.7	171.7	157.6
75°	1458.4	1088.8	177.8	151.5	133.3	173.7	228.3	193.9	167.7	155.5	149.5
77.5°	715.1	488.8	149.5	133.3	115.1	151.5	208.1	183.8	157.6	145.4	141.4
80°	195.9	175.7	125.2	117.2	97.0	131.3	195.9	175.7	147.5	135.3	129.3
82.5°	111.1	109.1	101.0	94.9	80.8	131.3	198.0	175.7	139.4	137.4	117.2
85°	60.6	64.6	72.7	70.7	62.6	117.2	187.9	153.5	113.1	94.9	94.9
87.5°	24.2	30.3	36.4	40.4	42.4	86.9	141.4	117.2	86.9	72.7	72.7
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)