

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: P675324

Luminaire Tested: **CCW-SA-1D-835-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675324
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4635.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

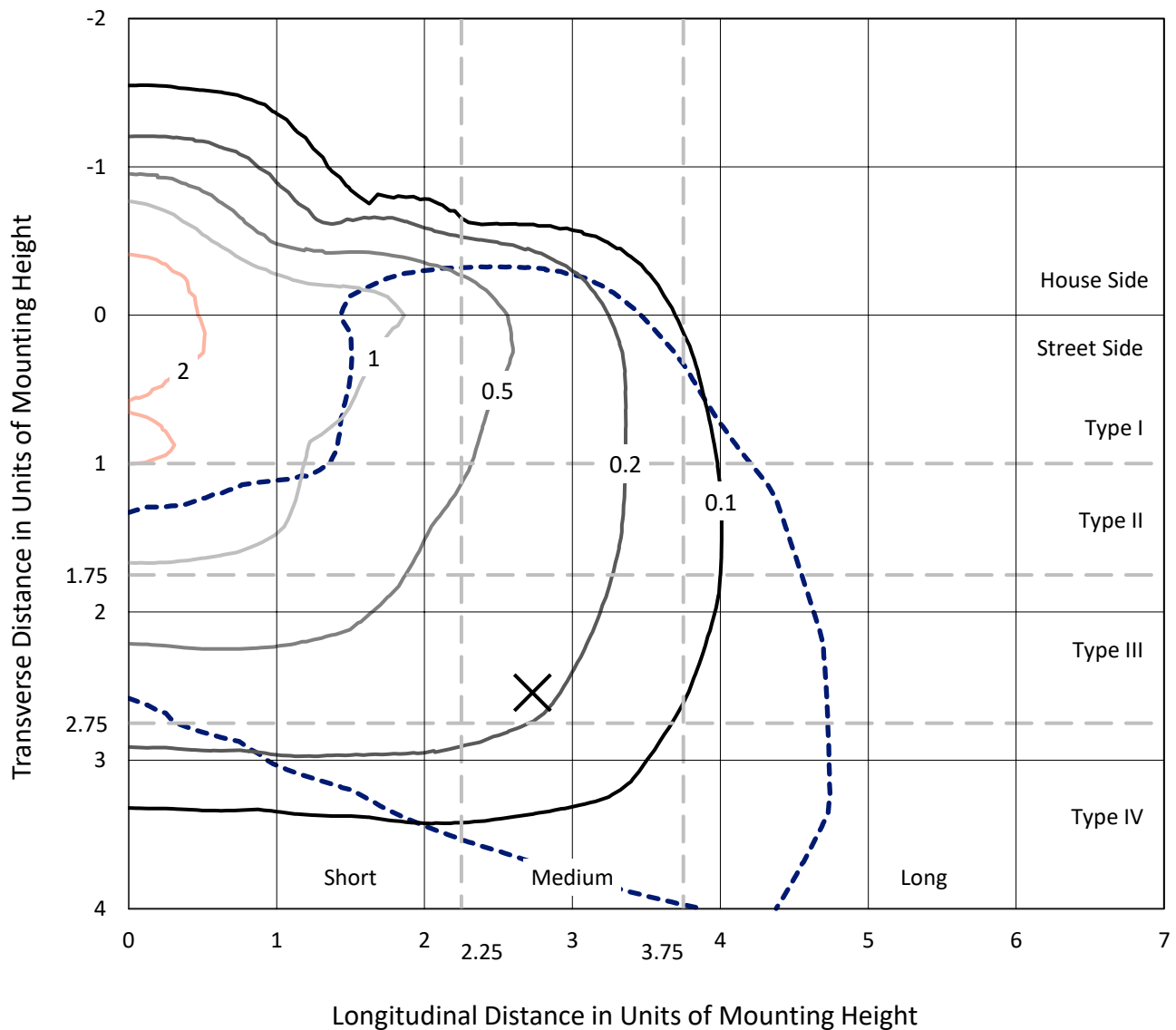
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

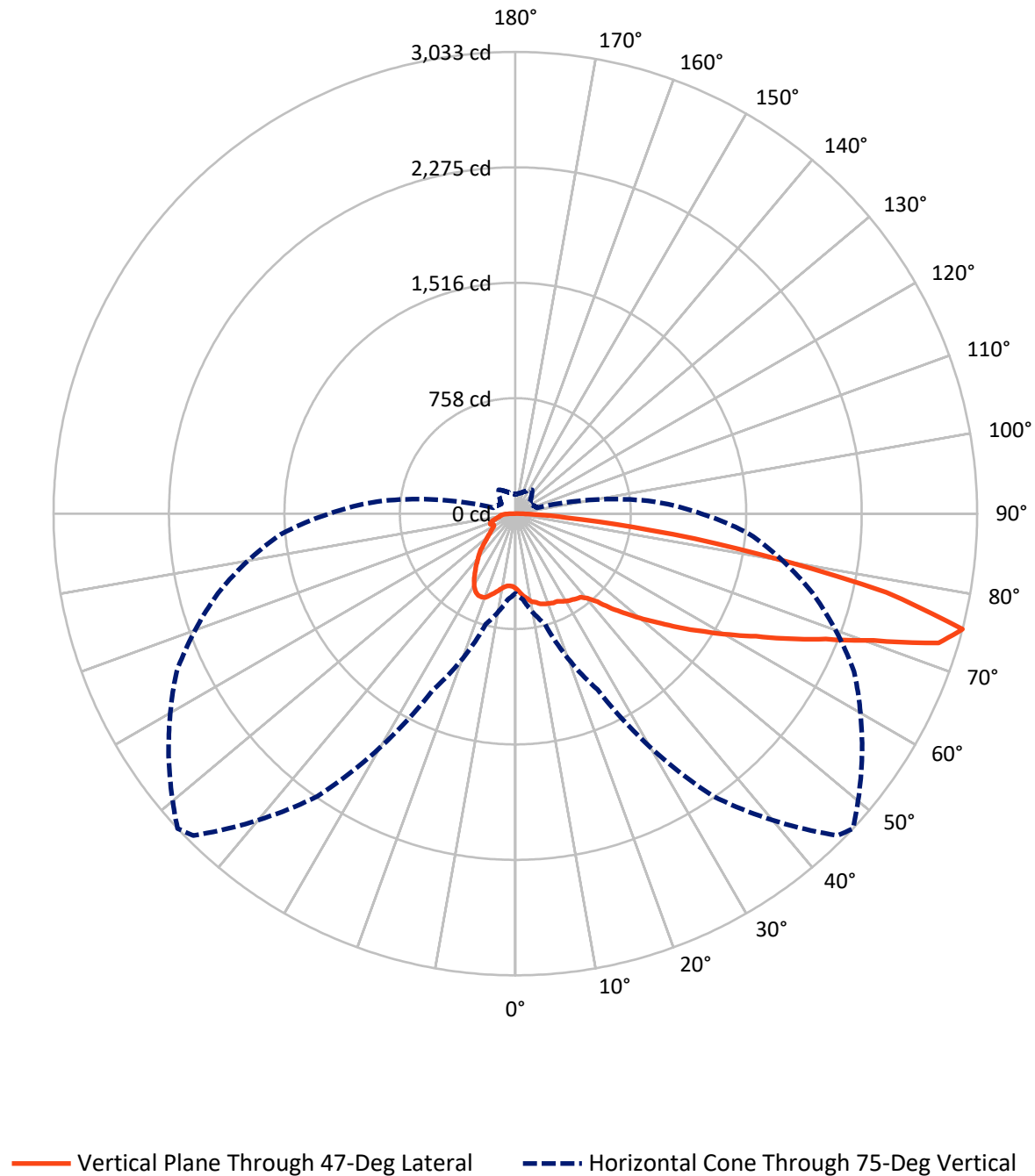
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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	1108.7	0.0	1108.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3527.2	0.0	3527.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	4635.9	0.0	4635.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.1
10°-20°	165.3	3.6
20°-30°	283.0	6.1
30°-40°	396.0	8.5
40°-50°	552.2	11.9
50°-60°	825.4	17.8
60°-70°	1190.0	25.7
70°-80°	1012.9	21.8
80°-90°	161.4	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°	4635.9	100.0
0°-180°	4635.9	100.0



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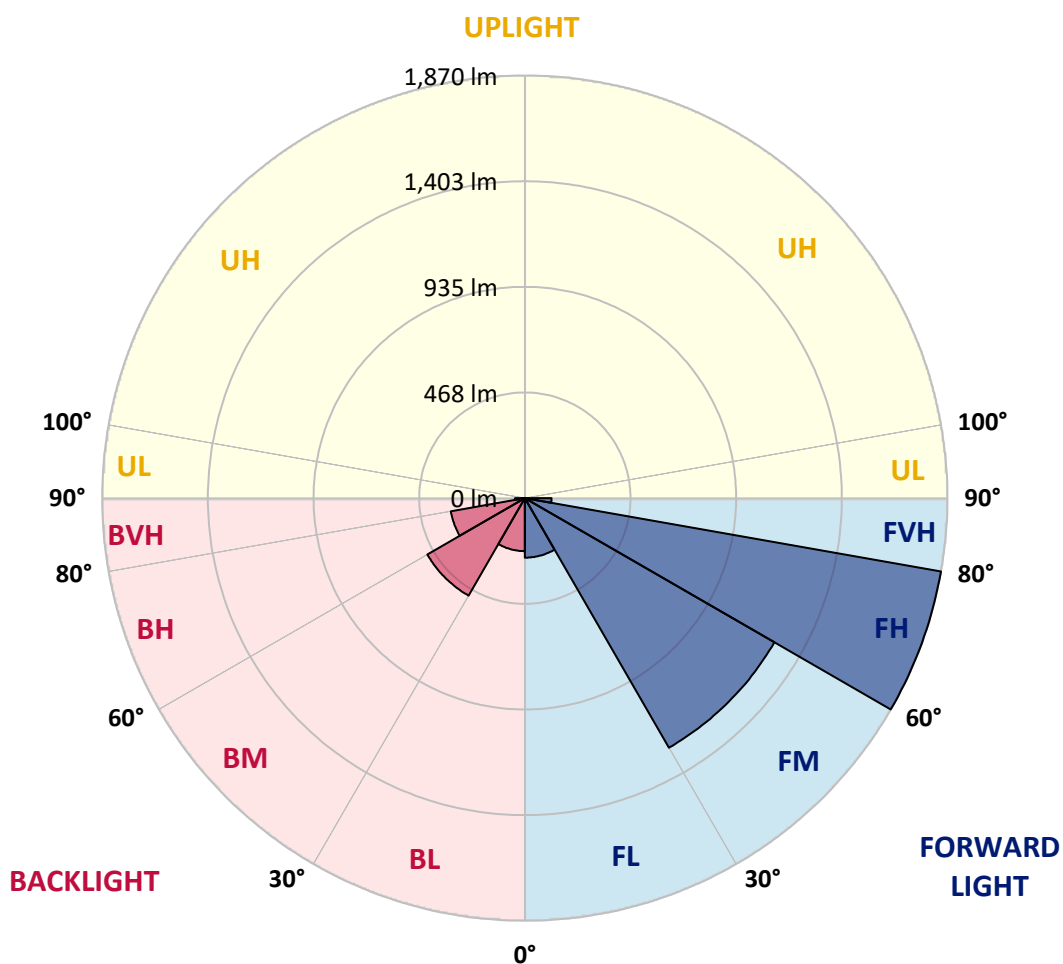
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.4	5.7			
FM	(30°-60°)	1275.3	27.5			
FH	(60°-80°)	1870.3	40.3			G2/5000
FVH	(80°-90°)	118.2	2.6			G2/225
BL	(0°-30°)	234.7	5.1	B1/500		
BM	(30°-60°)	498.3	10.7	B1/1000		
BH	(60°-80°)	332.6	7.2	B1/500		G1/500
BVH	(80°-90°)	43.1	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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	527.8	529.4	529.4	526.1	522.7	515.9	515.9	509.2	505.8	497.3	493.9
5°	576.8	571.7	566.7	565.0	556.5	544.7	543.0	536.2	517.6	509.2	497.3
7.5°	612.3	610.6	609.0	602.2	587.0	568.4	563.3	553.1	534.5	517.6	504.1
10°	641.1	647.9	641.1	625.9	610.6	590.3	588.7	570.0	553.1	532.8	515.9
12.5°	673.2	674.9	663.1	644.5	620.8	603.9	597.1	590.3	571.7	554.8	529.4
15°	695.2	691.8	683.4	658.0	630.9	614.0	615.7	607.3	587.0	575.1	548.1
17.5°	695.2	695.2	681.7	663.1	639.4	624.2	624.2	619.1	605.6	588.7	570.0
20°	681.7	681.7	673.2	663.1	636.0	632.6	629.2	625.9	625.9	610.6	583.6
22.5°	664.8	661.4	664.8	647.9	629.2	632.6	637.7	636.0	630.9	617.4	598.8
25°	647.9	649.5	652.9	641.1	624.2	639.4	637.7	646.2	642.8	632.6	617.4
27.5°	646.2	649.5	651.2	639.4	632.6	646.2	652.9	661.4	663.1	652.9	634.3
30°	671.5	669.8	668.2	652.9	647.9	659.7	666.5	678.3	688.5	666.5	651.2
32.5°	737.5	727.4	717.2	676.6	661.4	669.8	676.6	693.5	695.2	683.4	661.4
35°	842.4	835.6	801.8	730.7	688.5	680.0	686.8	698.6	702.0	693.5	676.6
37.5°	962.5	959.1	911.7	825.5	744.3	703.7	696.9	713.8	727.4	708.8	685.1
40°	1080.9	1067.4	1033.5	948.9	815.3	739.2	730.7	739.2	744.3	730.7	715.5
42.5°	1187.5	1172.2	1163.8	1079.2	908.4	798.4	791.6	771.3	786.6	769.6	749.3
45°	1277.1	1273.7	1270.3	1197.6	1014.9	894.8	889.7	837.3	854.2	840.7	811.9
47.5°	1341.4	1356.6	1351.5	1310.9	1136.7	998.0	982.8	915.1	940.5	927.0	898.2
50°	1417.5	1426.0	1420.9	1393.8	1250.0	1116.4	1087.7	1018.3	1047.1	1045.4	1030.1
52.5°	1485.2	1510.5	1481.8	1480.1	1412.4	1245.0	1195.9	1129.9	1177.3	1195.9	1194.2
55°	1564.7	1585.0	1576.5	1573.1	1557.9	1370.1	1326.2	1246.7	1326.2	1353.2	1376.9
57.5°	1632.3	1630.6	1662.8	1701.7	1720.3	1513.9	1461.5	1368.4	1488.5	1519.0	1585.0
60°	1662.8	1691.5	1745.7	1843.8	1896.2	1667.8	1613.7	1539.3	1652.6	1676.3	1798.1
62.5°	1683.1	1708.4	1813.3	1979.1	2009.5	1825.2	1774.4	1700.0	1831.9	1848.8	2029.8
65°	1627.3	1650.9	1859.0	2029.8	2138.1	1994.3	1982.5	1904.7	2011.2	2021.4	2273.4
67.5°	1563.0	1588.3	1820.1	2094.1	2308.9	2219.3	2200.7	2107.6	2188.8	2177.0	2459.5
70°	1449.6	1483.5	1720.3	2149.9	2498.4	2533.9	2496.7	2364.8	2373.2	2261.6	2467.9
72.5°	1104.6	1126.6	1346.5	1928.3	2586.4	2970.3	2906.0	2642.2	2545.8	2278.5	2178.7
75°	524.4	565.0	751.0	1275.4	2266.7	2990.6	3032.9	2779.2	2454.4	2021.4	1544.4
77.5°	152.2	152.2	228.4	541.3	1420.9	2410.4	2489.9	2359.7	2024.8	1497.0	811.9
80°	82.9	88.0	120.1	191.1	624.2	1520.7	1635.7	1564.7	1192.5	592.0	209.7
82.5°	47.4	49.1	79.5	115.0	284.2	827.2	894.8	811.9	453.3	179.3	98.1
85°	27.1	28.8	45.7	76.1	169.2	304.5	331.5	287.6	182.7	120.1	49.1
87.5°	13.5	13.5	22.0	35.5	86.3	86.3	84.6	103.2	109.9	72.7	22.0
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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	492.2	490.5	490.5	483.8	482.1	477.0	477.0	473.6	471.9	477.0	477.0
5°	493.9	485.5	483.8	477.0	478.7	475.3	482.1	478.7	477.0	477.0	475.3
7.5°	497.3	488.9	482.1	477.0	475.3	480.4	488.9	488.9	499.0	493.9	493.9
10°	505.8	500.7	492.2	488.9	488.9	493.9	504.1	510.8	519.3	519.3	514.2
12.5°	526.1	517.6	507.5	502.4	509.2	514.2	524.4	531.1	541.3	544.7	541.3
15°	541.3	532.8	529.4	526.1	531.1	537.9	546.4	553.1	565.0	568.4	566.7
17.5°	561.6	551.4	549.7	551.4	554.8	559.9	565.0	570.0	578.5	578.5	578.5
20°	571.7	568.4	566.7	571.7	578.5	585.3	581.9	578.5	576.8	580.2	578.5
22.5°	590.3	587.0	588.7	593.7	593.7	590.3	585.3	573.4	570.0	573.4	570.0
25°	607.3	603.9	603.9	600.5	598.8	587.0	576.8	566.7	554.8	559.9	558.2
27.5°	624.2	622.5	622.5	609.0	592.0	571.7	558.2	546.4	539.6	548.1	543.0
30°	644.5	646.2	637.7	605.6	565.0	543.0	527.8	526.1	524.4	529.4	527.8
32.5°	663.1	664.8	651.2	600.5	544.7	502.4	487.2	488.9	497.3	505.8	514.2
35°	673.2	681.7	664.8	583.6	504.1	456.7	439.8	455.0	470.2	482.1	490.5
37.5°	691.8	713.8	685.1	565.0	468.6	416.1	404.3	409.4	428.0	446.6	455.0
40°	718.9	744.3	690.1	529.4	421.2	375.5	368.8	370.4	377.2	389.1	397.5
42.5°	766.3	793.3	695.2	483.8	373.8	350.1	331.5	326.5	321.4	321.4	319.7
45°	835.6	861.0	688.5	426.3	326.5	309.6	296.0	284.2	270.6	248.7	252.0
47.5°	937.1	957.4	693.5	375.5	282.5	269.0	258.8	245.3	225.0	201.3	199.6
50°	1091.0	1060.6	686.8	323.1	250.3	238.5	230.0	211.4	187.8	170.8	169.2
52.5°	1270.3	1209.4	680.0	279.1	223.3	213.1	206.4	186.1	164.1	155.6	153.9
55°	1486.9	1398.9	690.1	240.2	203.0	194.5	187.8	169.2	152.2	145.5	143.8
57.5°	1742.3	1603.6	746.0	209.7	181.0	177.6	175.9	160.7	145.5	140.4	138.7
60°	1982.5	1799.8	783.2	187.8	160.7	164.1	167.5	160.7	143.8	140.4	140.4
62.5°	2183.8	1962.2	724.0	169.2	150.5	160.7	175.9	170.8	164.1	167.5	164.1
65°	2361.4	2018.0	541.3	159.0	145.5	169.2	194.5	192.8	177.6	181.0	179.3
67.5°	2391.8	1950.3	353.5	150.5	142.1	186.1	218.2	197.9	167.5	167.5	162.4
70°	2265.0	1769.3	236.8	142.1	140.4	186.1	223.3	186.1	157.3	157.3	150.5
72.5°	1859.0	1414.1	182.7	133.6	128.6	165.8	211.4	175.9	147.2	143.8	131.9
75°	1221.3	911.7	148.9	126.9	111.6	145.5	191.1	162.4	140.4	130.2	125.2
77.5°	598.8	409.4	125.2	111.6	96.4	126.9	174.2	153.9	131.9	121.8	118.4
80°	164.1	147.2	104.9	98.1	81.2	109.9	164.1	147.2	123.5	113.3	108.3
82.5°	93.0	91.3	84.6	79.5	67.7	109.9	165.8	147.2	116.7	115.0	98.1
85°	50.7	54.1	60.9	59.2	52.4	98.1	157.3	128.6	94.7	79.5	79.5
87.5°	20.3	25.4	30.4	33.8	35.5	72.7	118.4	98.1	72.7	60.9	60.9
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)