

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: P675334

Luminaire Tested: **CCW-SA-1C-840-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675334
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T4W distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3888.8 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

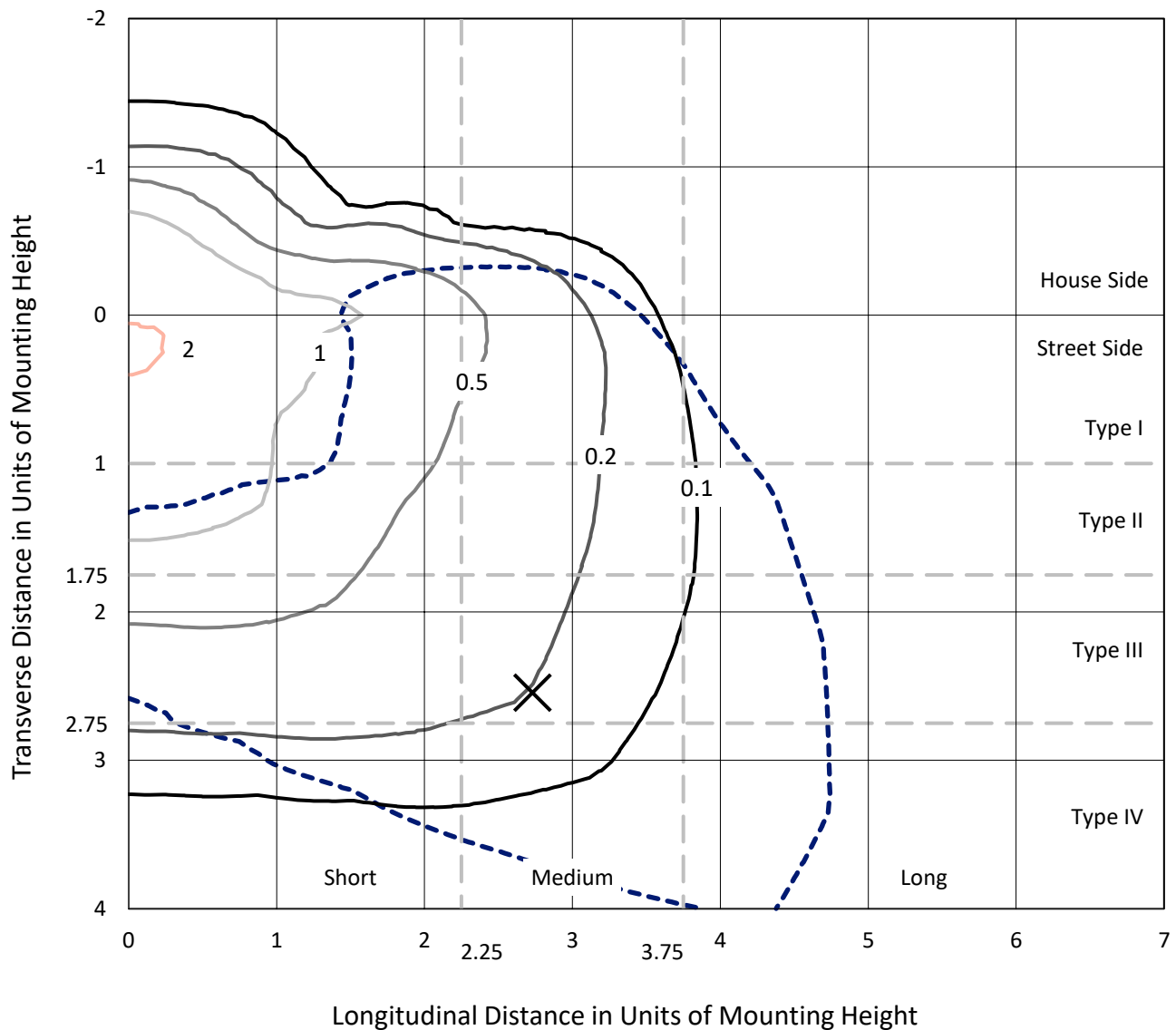
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

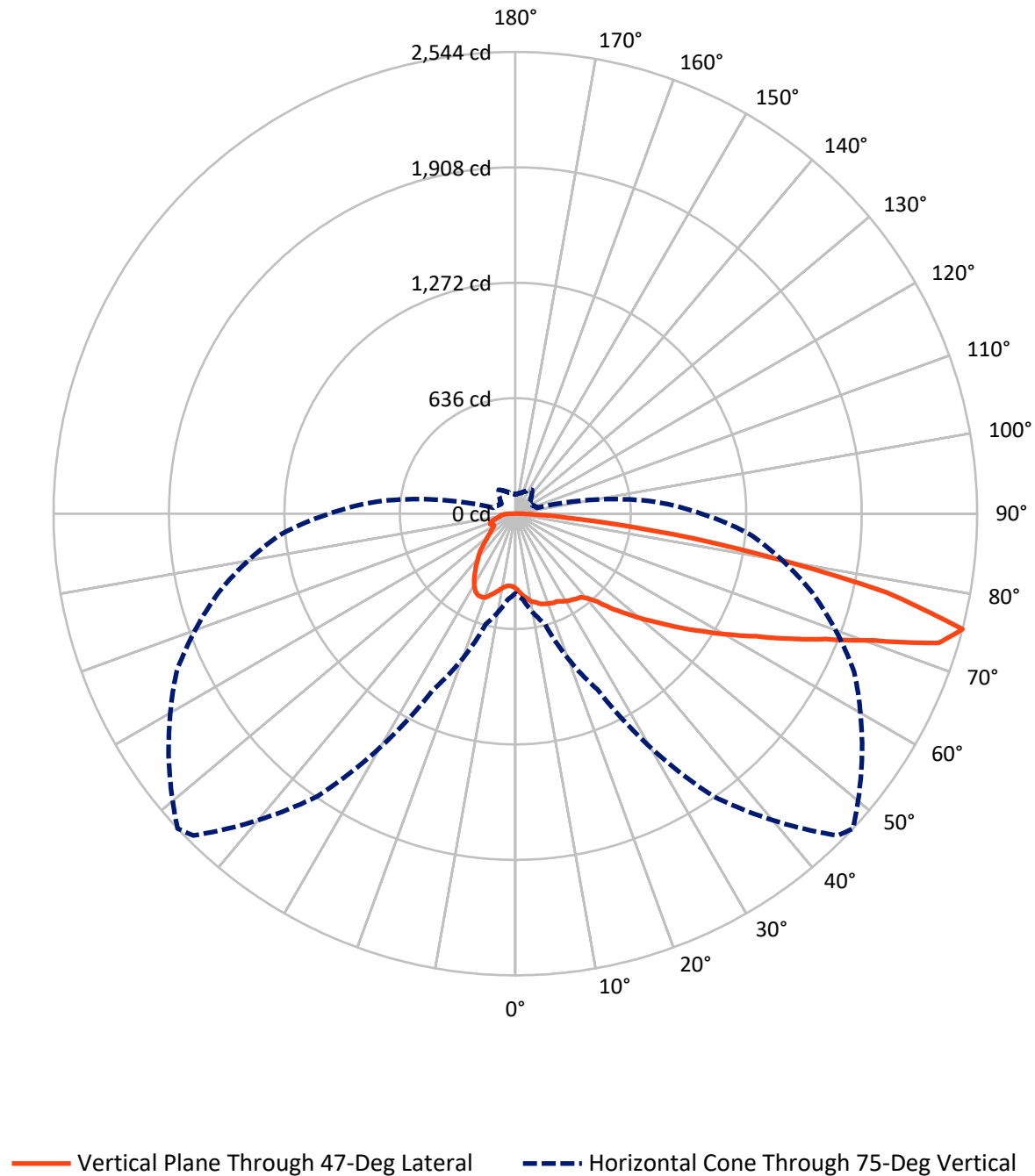
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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	930.0	0.0	930.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2958.8	0.0	2958.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	3888.8	0.0	3888.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	1.1
10°-20°	138.6	3.6
20°-30°	237.4	6.1
30°-40°	332.2	8.5
40°-50°	463.2	11.9
50°-60°	692.4	17.8
60°-70°	998.2	25.7
70°-80°	849.7	21.8
80°-90°	135.4	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°	3888.8	100.0
0°-180°	3888.8	100.0



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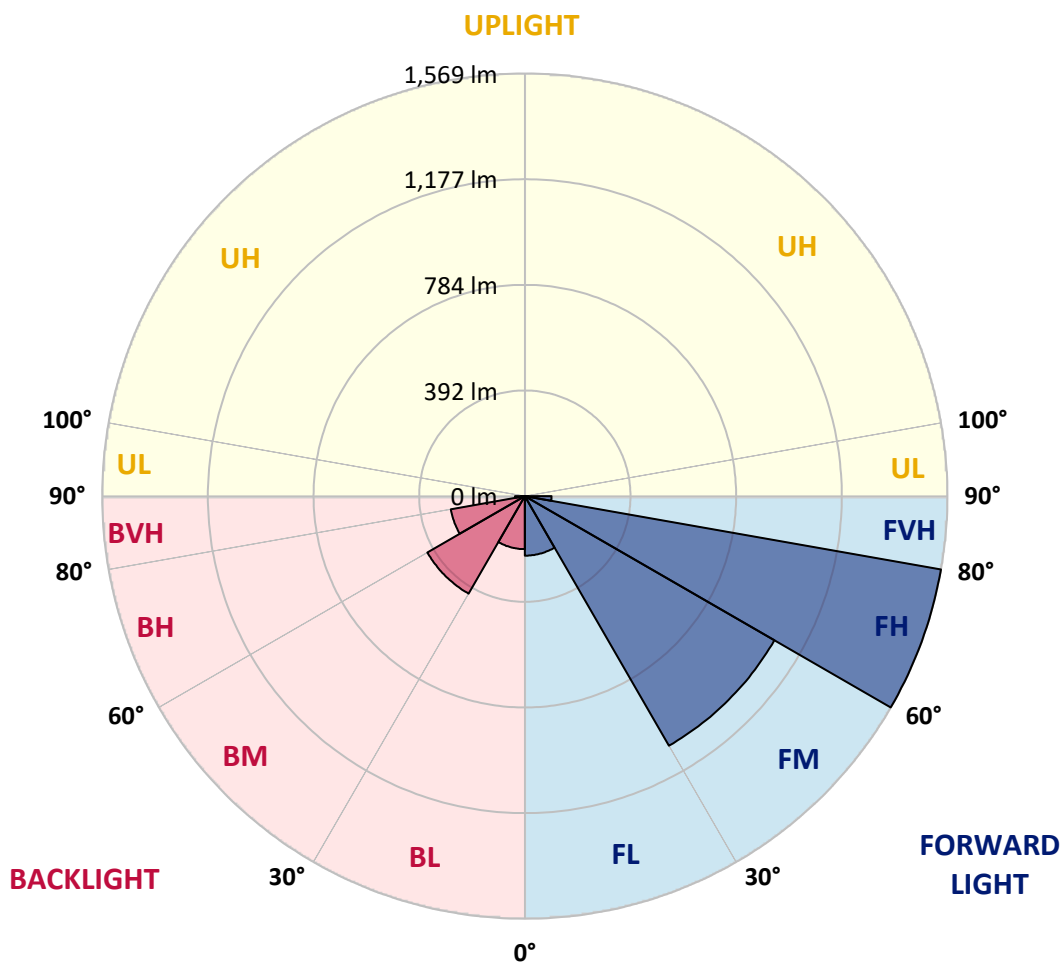
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.9	5.7			
FM	(30°-60°)	1069.8	27.5			
FH	(60°-80°)	1568.9	40.3			G1/1800
FVH	(80°-90°)	99.2	2.6			G1/100
BL	(0°-30°)	196.8	5.1	B1/500		
BM	(30°-60°)	418.0	10.7	B1/1000		
BH	(60°-80°)	279.0	7.2	B1/500		G1/500
BVH	(80°-90°)	36.2	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-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
2.5°	442.7	444.1	444.1	441.3	438.5	432.8	432.8	427.1	424.3	417.2	414.3
5°	483.9	479.6	475.3	473.9	466.8	456.9	455.5	449.8	434.2	427.1	417.2
7.5°	513.7	512.2	510.8	505.1	492.4	476.8	472.5	464.0	448.4	434.2	422.8
10°	537.8	543.5	537.8	525.0	512.2	495.2	493.8	478.2	464.0	447.0	432.8
12.5°	564.7	566.2	556.2	540.6	520.8	506.6	500.9	495.2	479.6	465.4	444.1
15°	583.2	580.3	573.3	552.0	529.3	515.1	516.5	509.4	492.4	482.4	459.7
17.5°	583.2	583.2	571.8	556.2	536.4	523.6	523.6	519.3	508.0	493.8	478.2
20°	571.8	571.8	564.7	556.2	533.5	530.7	527.8	525.0	525.0	512.2	489.5
22.5°	557.6	554.8	557.6	543.5	527.8	530.7	534.9	533.5	529.3	517.9	502.3
25°	543.5	544.9	547.7	537.8	523.6	536.4	534.9	542.0	539.2	530.7	517.9
27.5°	542.0	544.9	546.3	536.4	530.7	542.0	547.7	554.8	556.2	547.7	532.1
30°	563.3	561.9	560.5	547.7	543.5	553.4	559.1	569.0	577.5	559.1	546.3
32.5°	618.7	610.1	601.6	567.6	554.8	561.9	567.6	581.8	583.2	573.3	554.8
35°	706.6	701.0	672.6	613.0	577.5	570.4	576.1	586.0	588.9	581.8	567.6
37.5°	807.4	804.5	764.8	692.4	624.3	590.3	584.6	598.8	610.1	594.5	574.7
40°	906.7	895.4	867.0	796.0	683.9	620.1	613.0	620.1	624.3	613.0	600.2
42.5°	996.1	983.3	976.2	905.3	762.0	669.7	664.1	647.0	659.8	645.6	628.6
45°	1071.3	1068.5	1065.6	1004.6	851.4	750.6	746.4	702.4	716.6	705.2	681.1
47.5°	1125.2	1138.0	1133.7	1099.7	953.5	837.2	824.4	767.6	788.9	777.6	753.5
50°	1189.1	1196.2	1191.9	1169.2	1048.6	936.5	912.4	854.2	878.3	876.9	864.1
52.5°	1245.8	1267.1	1243.0	1241.6	1184.8	1044.3	1003.2	947.9	987.6	1003.2	1001.8
55°	1312.5	1329.6	1322.5	1319.6	1306.8	1149.3	1112.5	1045.8	1112.5	1135.2	1155.0
57.5°	1369.3	1367.9	1394.8	1427.5	1443.1	1270.0	1226.0	1147.9	1248.7	1274.2	1329.6
60°	1394.8	1418.9	1464.4	1546.6	1590.6	1399.1	1353.7	1291.2	1386.3	1406.2	1508.3
62.5°	1411.8	1433.1	1521.1	1660.2	1685.7	1531.0	1488.5	1426.0	1536.7	1550.9	1702.7
65°	1365.0	1384.9	1559.4	1702.7	1793.5	1672.9	1663.0	1597.7	1687.1	1695.6	1907.1
67.5°	1311.1	1332.4	1526.8	1756.7	1936.9	1861.7	1846.0	1768.0	1836.1	1826.2	2063.1
70°	1216.0	1244.4	1443.1	1803.5	2095.8	2125.6	2094.4	1983.7	1990.8	1897.1	2070.2
72.5°	926.6	945.0	1129.5	1617.6	2169.6	2491.7	2437.7	2216.4	2135.5	1911.3	1827.6
75°	439.9	473.9	630.0	1069.9	1901.4	2508.7	2544.2	2331.3	2058.9	1695.6	1295.5
77.5°	127.7	127.7	191.6	454.1	1191.9	2022.0	2088.7	1979.4	1698.5	1255.8	681.1
80°	69.5	73.8	100.7	160.3	523.6	1275.6	1372.1	1312.5	1000.4	496.6	175.9
82.5°	39.7	41.1	66.7	96.5	238.4	693.9	750.6	681.1	380.3	150.4	82.3
85°	22.7	24.1	38.3	63.9	141.9	255.4	278.1	241.2	153.2	100.7	41.1
87.5°	11.4	11.4	18.4	29.8	72.4	72.4	70.9	86.6	92.2	61.0	18.4
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°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
2.5°	412.9	411.5	411.5	405.8	404.4	400.1	400.1	397.3	395.9	400.1	400.1
5°	414.3	407.2	405.8	400.1	401.6	398.7	404.4	401.6	400.1	400.1	398.7
7.5°	417.2	410.1	404.4	400.1	398.7	403.0	410.1	410.1	418.6	414.3	414.3
10°	424.3	420.0	412.9	410.1	410.1	414.3	422.8	428.5	435.6	435.6	431.4
12.5°	441.3	434.2	425.7	421.4	427.1	431.4	439.9	445.5	454.1	456.9	454.1
15°	454.1	447.0	444.1	441.3	445.5	451.2	458.3	464.0	473.9	476.8	475.3
17.5°	471.1	462.6	461.2	462.6	465.4	469.7	473.9	478.2	485.3	485.3	485.3
20°	479.6	476.8	475.3	479.6	485.3	491.0	488.1	485.3	483.9	486.7	485.3
22.5°	495.2	492.4	493.8	498.0	498.0	495.2	491.0	481.0	478.2	481.0	478.2
25°	509.4	506.6	506.6	503.7	502.3	492.4	483.9	475.3	465.4	469.7	468.3
27.5°	523.6	522.2	522.2	510.8	496.6	479.6	468.3	458.3	452.6	459.7	455.5
30°	540.6	542.0	534.9	508.0	473.9	455.5	442.7	441.3	439.9	444.1	442.7
32.5°	556.2	557.6	546.3	503.7	456.9	421.4	408.7	410.1	417.2	424.3	431.4
35°	564.7	571.8	557.6	489.5	422.8	383.1	368.9	381.7	394.5	404.4	411.5
37.5°	580.3	598.8	574.7	473.9	393.0	349.1	339.1	343.4	359.0	374.6	381.7
40°	603.1	624.3	578.9	444.1	353.3	315.0	309.3	310.7	316.4	326.4	333.5
42.5°	642.8	665.5	583.2	405.8	313.6	293.7	278.1	273.9	269.6	269.6	268.2
45°	701.0	722.2	577.5	357.6	273.9	259.7	248.3	238.4	227.0	208.6	211.4
47.5°	786.1	803.1	581.8	315.0	237.0	225.6	217.1	205.7	188.7	168.9	167.4
50°	915.2	889.7	576.1	271.0	210.0	200.1	193.0	177.4	157.5	143.3	141.9
52.5°	1065.6	1014.5	570.4	234.1	187.3	178.8	173.1	156.1	137.6	130.5	129.1
55°	1247.3	1173.5	578.9	201.5	170.3	163.2	157.5	141.9	127.7	122.0	120.6
57.5°	1461.5	1345.2	625.8	175.9	151.8	149.0	147.6	134.8	122.0	117.8	116.4
60°	1663.0	1509.8	657.0	157.5	134.8	137.6	140.5	134.8	120.6	117.8	117.8
62.5°	1831.9	1646.0	607.3	141.9	126.3	134.8	147.6	143.3	137.6	140.5	137.6
65°	1980.8	1692.8	454.1	133.4	122.0	141.9	163.2	161.8	149.0	151.8	150.4
67.5°	2006.4	1636.0	296.6	126.3	119.2	156.1	183.0	166.0	140.5	140.5	136.2
70°	1900.0	1484.2	198.7	119.2	117.8	156.1	187.3	156.1	132.0	132.0	126.3
72.5°	1559.4	1186.2	153.2	112.1	107.8	139.1	177.4	147.6	123.4	120.6	110.7
75°	1024.5	764.8	124.9	106.4	93.7	122.0	160.3	136.2	117.8	109.3	105.0
77.5°	502.3	343.4	105.0	93.7	80.9	106.4	146.2	129.1	110.7	102.2	99.3
80°	137.6	123.4	88.0	82.3	68.1	92.2	137.6	123.4	103.6	95.1	90.8
82.5°	78.0	76.6	70.9	66.7	56.8	92.2	139.1	123.4	97.9	96.5	82.3
85°	42.6	45.4	51.1	49.7	44.0	82.3	132.0	107.8	79.5	66.7	66.7
87.5°	17.0	21.3	25.5	28.4	29.8	61.0	99.3	82.3	61.0	51.1	51.1
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)