

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: P675170

Luminaire Tested: **CCW-SA-1E-830-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675170
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4FT distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

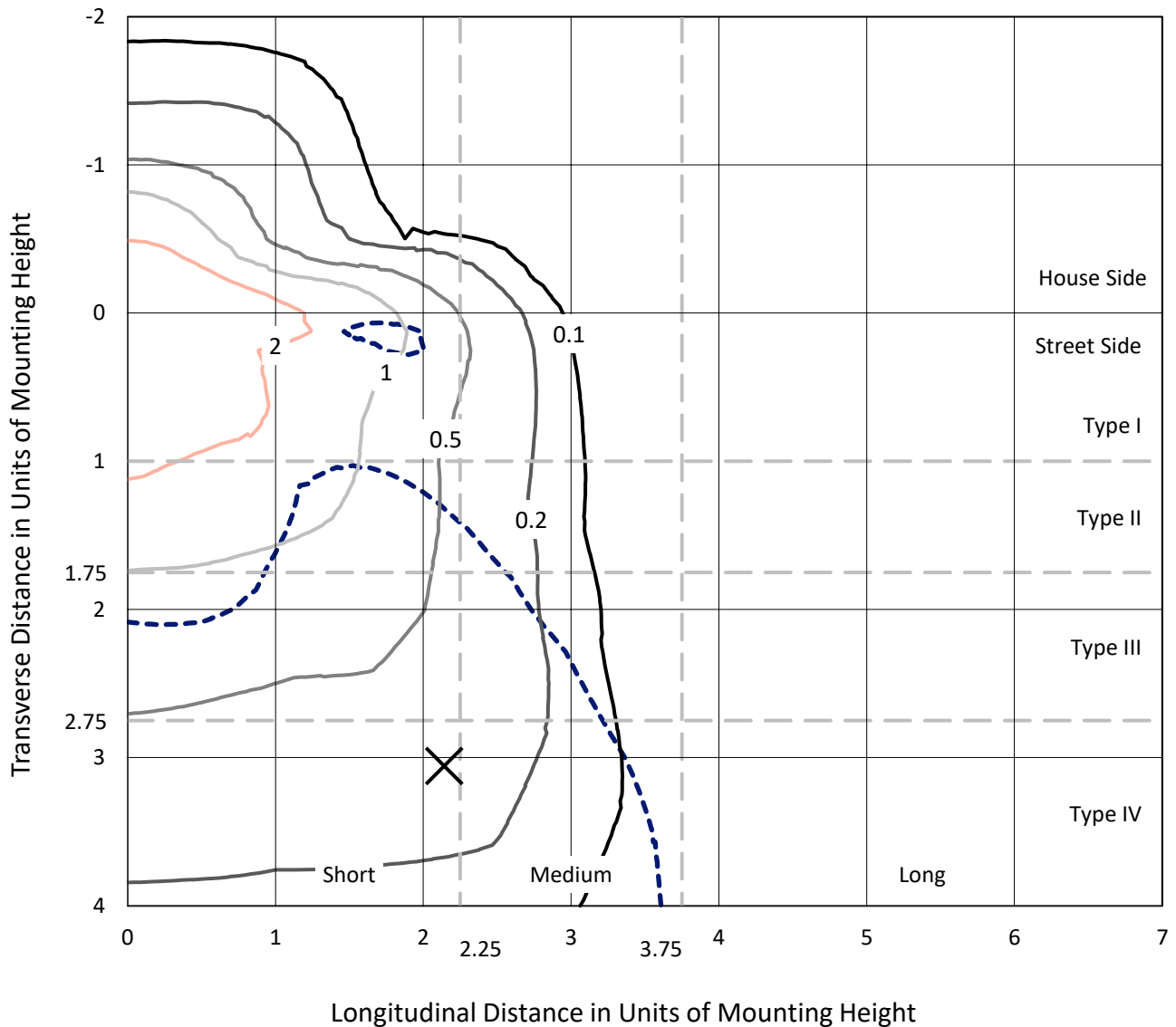
Lumens per Lamp: N/A
Luminaire Lumens: 5429.4 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

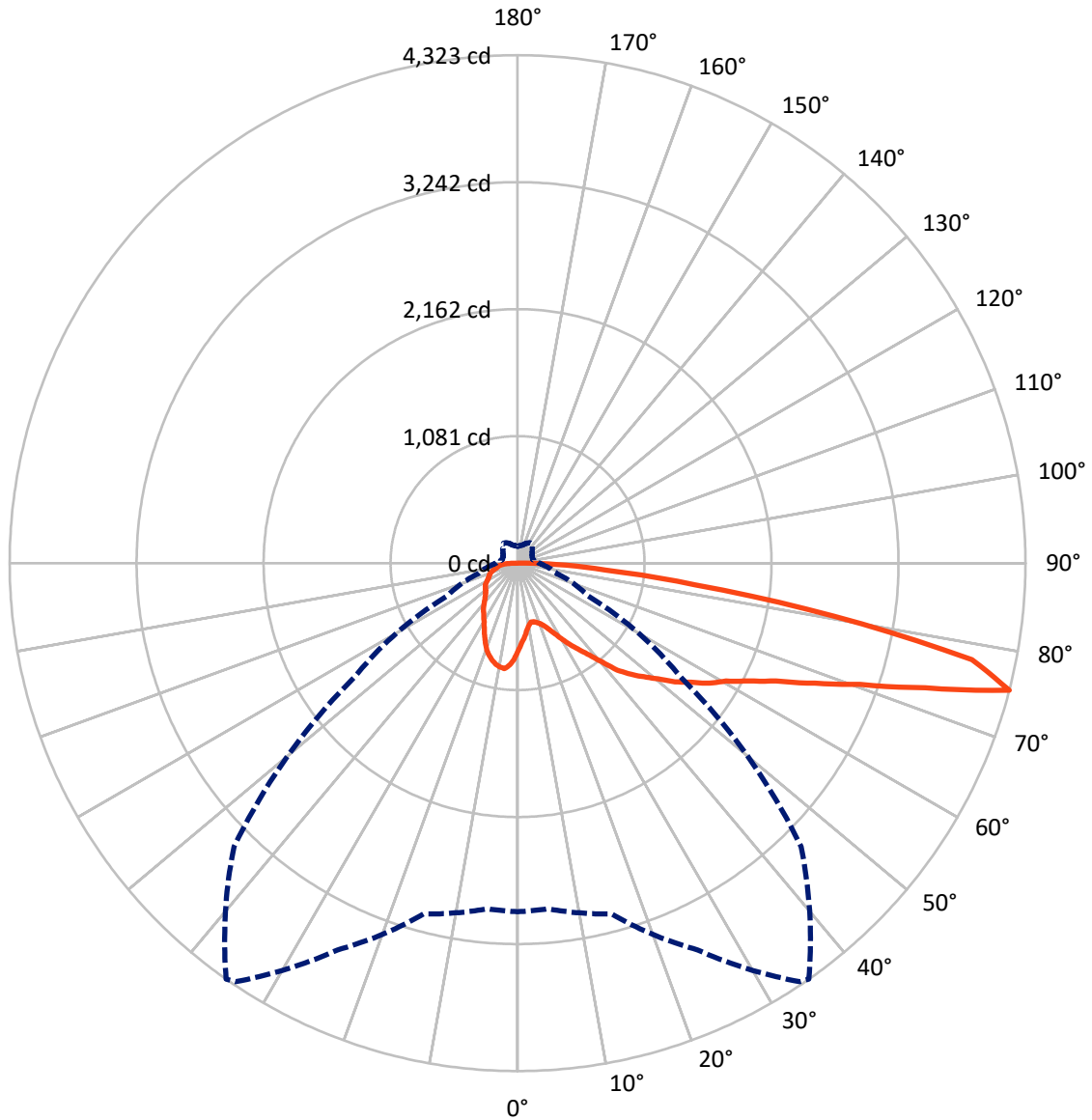
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.8	0.0	1247.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4181.6	0.0	4181.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	5429.4	0.0	5429.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.3
10°-20°	205.7	3.8
20°-30°	341.3	6.3
30°-40°	506.0	9.3
40°-50°	729.6	13.4
50°-60°	1003.3	18.5
60°-70°	1239.3	22.8
70°-80°	1133.8	20.9
80°-90°	199.6	3.7
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°	5429.4	100.0
0°-180°	5429.4	100.0



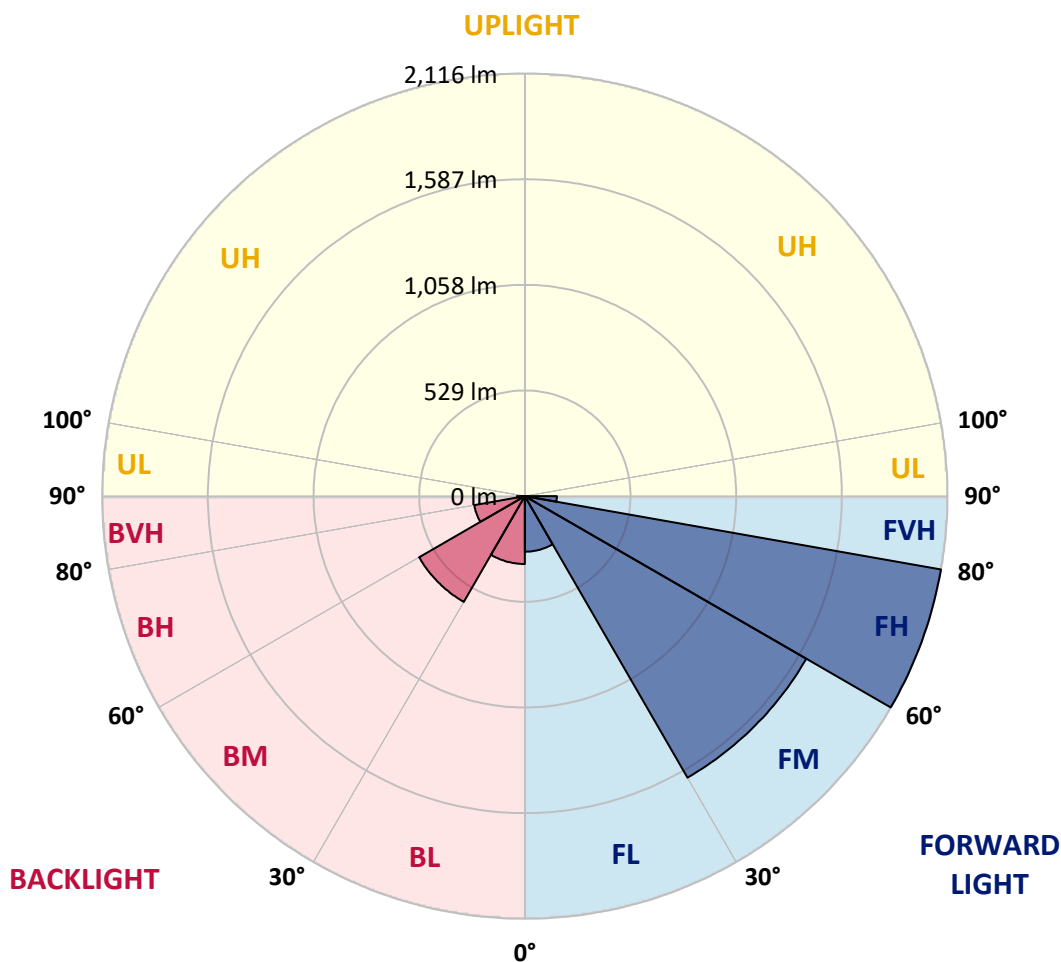
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.3	5.1			
FM (30°-60°)	1627.4	30.0			
FH (60°-80°)	2115.7	39.0			G2/5000
FVH (80°-90°)	160.2	3.0			G2/225
BL (0°-30°)	339.6	6.3	B1/500		
BM (30°-60°)	611.4	11.3	B1/1000		
BH (60°-80°)	257.3	4.7	B1/500		G1/500
BVH (80°-90°)	39.4	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9
2.5°	673.9	667.9	673.9	677.9	677.9	677.9	683.9	701.9	713.9	721.9	735.9
5°	603.9	605.9	609.9	619.9	625.9	629.9	639.9	661.9	679.9	705.9	735.9
7.5°	541.9	545.9	551.9	561.9	575.9	573.9	595.9	625.9	659.9	693.9	737.9
10°	509.9	517.9	519.9	521.9	535.9	535.9	565.9	599.9	641.9	685.9	737.9
12.5°	515.9	515.9	509.9	507.9	515.9	513.9	539.9	579.9	625.9	687.9	745.9
15°	533.9	533.9	521.9	509.9	521.9	517.9	539.9	571.9	625.9	689.9	761.8
17.5°	557.9	559.9	545.9	525.9	529.9	531.9	547.9	577.9	625.9	693.9	783.8
20°	605.9	595.9	573.9	541.9	555.9	549.9	573.9	599.9	637.9	709.9	815.8
22.5°	647.9	647.9	605.9	577.9	579.9	579.9	601.9	623.9	655.9	731.9	839.8
25°	715.9	711.9	659.9	617.9	621.9	623.9	635.9	661.9	685.9	743.9	869.8
27.5°	801.8	791.8	739.9	691.9	675.9	681.9	687.9	707.9	713.9	763.8	905.8
30°	893.8	879.8	835.8	759.8	751.9	753.9	743.9	755.9	747.9	795.8	941.8
32.5°	951.8	951.8	909.8	853.8	831.8	831.8	797.8	805.8	805.8	825.8	1005.8
35°	1001.8	997.8	969.8	927.8	913.8	905.8	871.8	883.8	863.8	883.8	1095.8
37.5°	1077.8	1065.8	1053.8	1025.8	997.8	991.8	973.8	981.8	953.8	943.8	1197.8
40°	1165.8	1159.8	1147.8	1135.8	1107.8	1105.8	1085.8	1093.8	1063.8	1025.8	1299.7
42.5°	1295.7	1277.7	1239.8	1229.8	1235.8	1243.8	1235.8	1221.8	1167.8	1119.8	1409.7
45°	1425.7	1397.7	1325.7	1309.7	1355.7	1349.7	1383.7	1377.7	1289.7	1213.8	1525.7
47.5°	1509.7	1485.7	1427.7	1417.7	1437.7	1445.7	1547.7	1529.7	1389.7	1299.7	1637.7
50°	1569.7	1571.7	1495.7	1521.7	1547.7	1547.7	1675.7	1673.7	1511.7	1405.7	1783.6
52.5°	1657.7	1629.7	1597.7	1621.7	1657.7	1677.7	1835.6	1791.6	1587.7	1495.7	1947.6
55°	1703.7	1691.7	1663.7	1705.7	1781.6	1791.6	1959.6	1925.6	1673.7	1601.7	2115.6
57.5°	1721.7	1731.7	1777.6	1795.6	1901.6	1927.6	2071.6	2023.6	1753.7	1733.7	2245.6
60°	1801.6	1787.6	1849.6	1921.6	2023.6	2037.6	2211.6	2107.6	1831.6	1819.6	2287.5
62.5°	1963.6	1927.6	1961.6	2047.6	2189.6	2207.6	2359.5	2219.6	1865.6	1877.6	2285.5
65°	2199.6	2173.6	2123.6	2191.6	2391.5	2417.5	2533.5	2315.5	1855.6	1857.6	2123.6
67.5°	2477.5	2435.5	2383.5	2425.5	2669.5	2729.5	2745.5	2357.5	1785.6	1745.7	1727.7
70°	2721.5	2693.5	2659.5	2731.5	3071.4	3093.4	3009.4	2331.5	1591.7	1401.7	1151.8
72.5°	2949.4	2935.4	2955.4	3225.4	3615.3	3629.3	3257.4	2167.6	1257.8	849.8	535.9
75°	2967.4	2953.4	3091.4	3633.3	4297.2	4323.1	3411.3	1699.7	663.9	345.9	226.0
77.5°	2009.6	2051.6	2309.5	3181.4	3947.2	3953.2	2789.4	789.8	273.9	204.0	158.0
80°	493.9	547.9	869.8	1645.7	2661.5	2727.5	1527.7	265.9	180.0	156.0	118.0
82.5°	180.0	196.0	353.9	743.9	1495.7	1521.7	533.9	144.0	130.0	120.0	86.0
85°	86.0	88.0	168.0	365.9	755.9	747.9	192.0	86.0	94.0	82.0	52.0
87.5°	36.0	36.0	74.0	170.0	333.9	323.9	62.0	40.0	54.0	48.0	26.0
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°	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9	743.9
2.5°	745.9	749.9	765.8	777.8	789.8	799.8	815.8	815.8	825.8	825.8	825.8
5°	743.9	765.8	791.8	819.8	837.8	855.8	871.8	873.8	879.8	887.8	889.8
7.5°	751.9	773.8	815.8	855.8	877.8	885.8	905.8	899.8	899.8	899.8	905.8
10°	767.8	791.8	849.8	885.8	901.8	903.8	897.8	893.8	881.8	877.8	871.8
12.5°	779.8	821.8	879.8	907.8	901.8	895.8	881.8	861.8	847.8	843.8	843.8
15°	809.8	851.8	905.8	915.8	905.8	873.8	855.8	833.8	821.8	803.8	811.8
17.5°	835.8	883.8	931.8	919.8	899.8	849.8	823.8	791.8	775.8	755.9	755.9
20°	869.8	913.8	955.8	923.8	879.8	825.8	783.8	743.9	721.9	701.9	705.9
22.5°	907.8	947.8	969.8	907.8	849.8	787.8	729.9	691.9	663.9	651.9	655.9
25°	937.8	981.8	977.8	881.8	813.8	739.9	675.9	639.9	633.9	621.9	621.9
27.5°	975.8	1021.8	971.8	849.8	753.9	663.9	623.9	609.9	609.9	603.9	607.9
30°	1025.8	1057.8	957.8	803.8	677.9	595.9	575.9	583.9	597.9	591.9	593.9
32.5°	1107.8	1103.8	945.8	751.9	597.9	529.9	543.9	559.9	571.9	577.9	581.9
35°	1187.8	1161.8	931.8	681.9	523.9	497.9	509.9	527.9	549.9	555.9	557.9
37.5°	1267.7	1221.8	907.8	595.9	477.9	469.9	481.9	491.9	509.9	513.9	517.9
40°	1351.7	1261.8	865.8	511.9	439.9	439.9	447.9	449.9	459.9	465.9	469.9
42.5°	1425.7	1299.7	789.8	433.9	399.9	413.9	415.9	411.9	403.9	407.9	409.9
45°	1515.7	1341.7	701.9	377.9	369.9	387.9	391.9	375.9	361.9	353.9	349.9
47.5°	1603.7	1385.7	625.9	331.9	341.9	369.9	369.9	351.9	327.9	307.9	299.9
50°	1683.7	1429.7	563.9	303.9	313.9	355.9	359.9	325.9	299.9	275.9	271.9
52.5°	1817.6	1503.7	499.9	281.9	297.9	345.9	343.9	313.9	279.9	253.9	252.0
55°	1935.6	1577.7	415.9	259.9	281.9	331.9	337.9	301.9	255.9	232.0	228.0
57.5°	2021.6	1595.7	331.9	238.0	265.9	315.9	323.9	277.9	240.0	220.0	218.0
60°	2037.6	1525.7	269.9	220.0	244.0	293.9	299.9	263.9	228.0	212.0	208.0
62.5°	1963.6	1391.7	230.0	204.0	226.0	271.9	283.9	248.0	216.0	202.0	200.0
65°	1795.6	1195.8	202.0	190.0	214.0	255.9	269.9	236.0	206.0	194.0	192.0
67.5°	1421.7	917.8	180.0	180.0	198.0	240.0	259.9	228.0	196.0	188.0	186.0
70°	929.8	551.9	164.0	166.0	186.0	226.0	248.0	218.0	184.0	182.0	178.0
72.5°	399.9	253.9	146.0	152.0	168.0	202.0	230.0	204.0	170.0	164.0	158.0
75°	184.0	154.0	132.0	136.0	150.0	178.0	208.0	188.0	158.0	148.0	142.0
77.5°	130.0	112.0	110.0	118.0	128.0	154.0	184.0	176.0	146.0	138.0	134.0
80°	96.0	86.0	92.0	100.0	106.0	142.0	174.0	162.0	134.0	122.0	116.0
82.5°	68.0	64.0	72.0	80.0	86.0	124.0	160.0	142.0	112.0	102.0	92.0
85°	40.0	42.0	50.0	54.0	60.0	92.0	134.0	114.0	86.0	66.0	64.0
87.5°	18.0	18.0	24.0	26.0	30.0	54.0	90.0	72.0	54.0	42.0	40.0
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)