

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: P677115

Luminaire Tested: **CCW-SA-2E-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677115
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

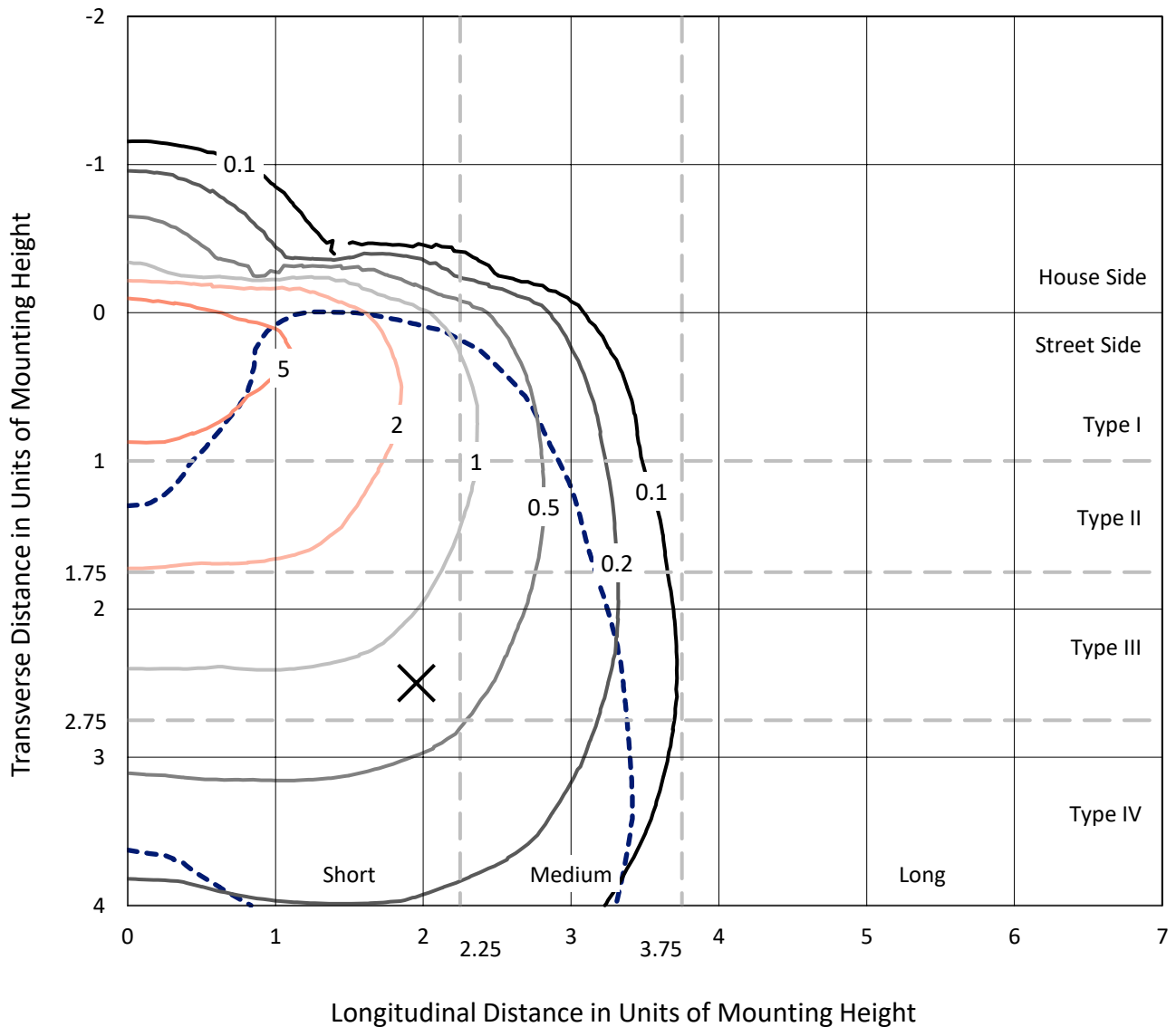
Lumens per Lamp: N/A
Luminaire Lumens: 9445.4 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

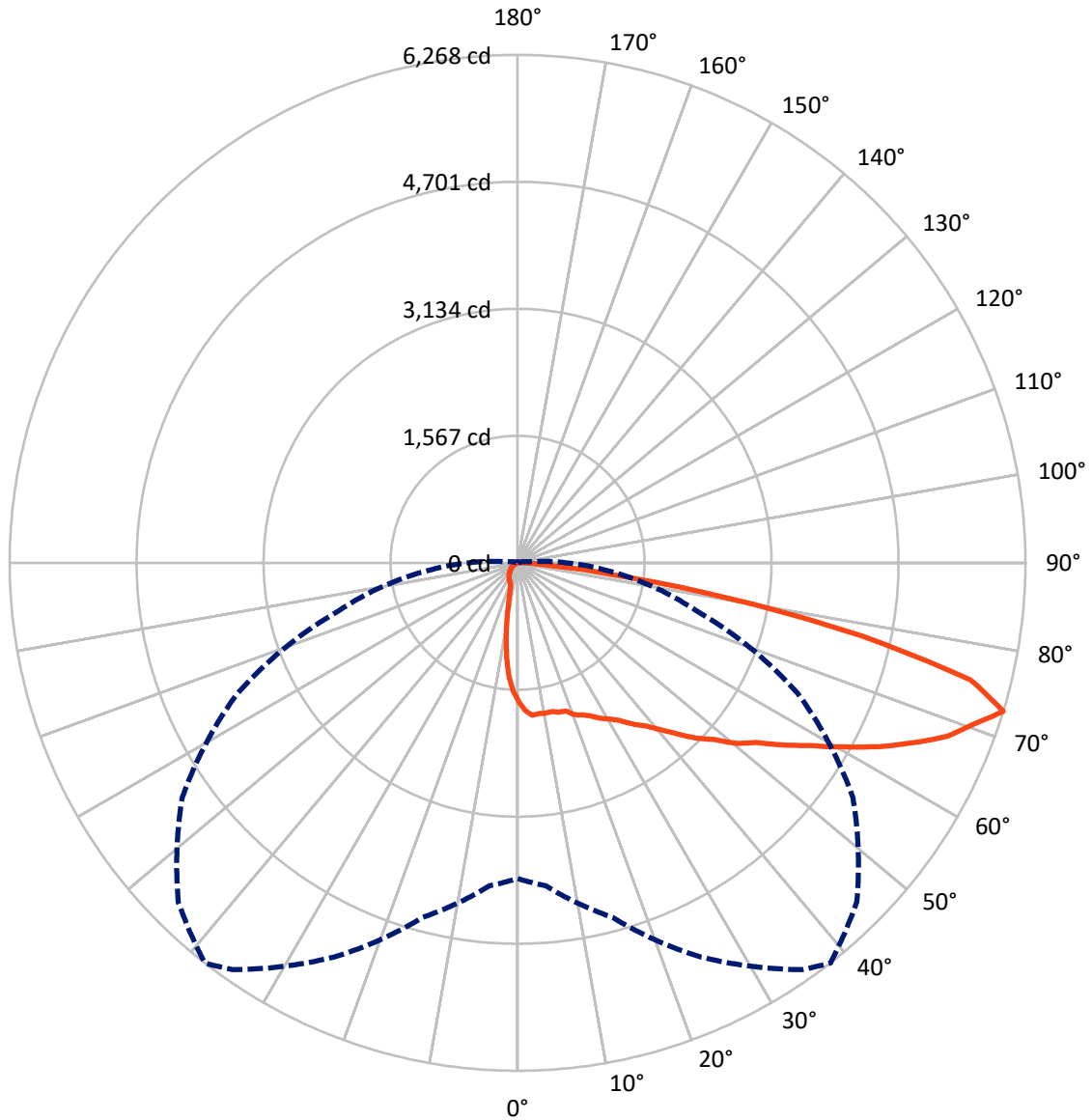
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.1	0.0	791.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8654.4	0.0	8654.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	9445.4	0.0	9445.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.6
10°-20°	366.1	3.9
20°-30°	586.8	6.2
30°-40°	886.0	9.4
40°-50°	1348.4	14.3
50°-60°	1898.4	20.1
60°-70°	2318.9	24.6
70°-80°	1683.9	17.8
80°-90°	207.4	2.2
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°	9445.4	100.0
0°-180°	9445.4	100.0

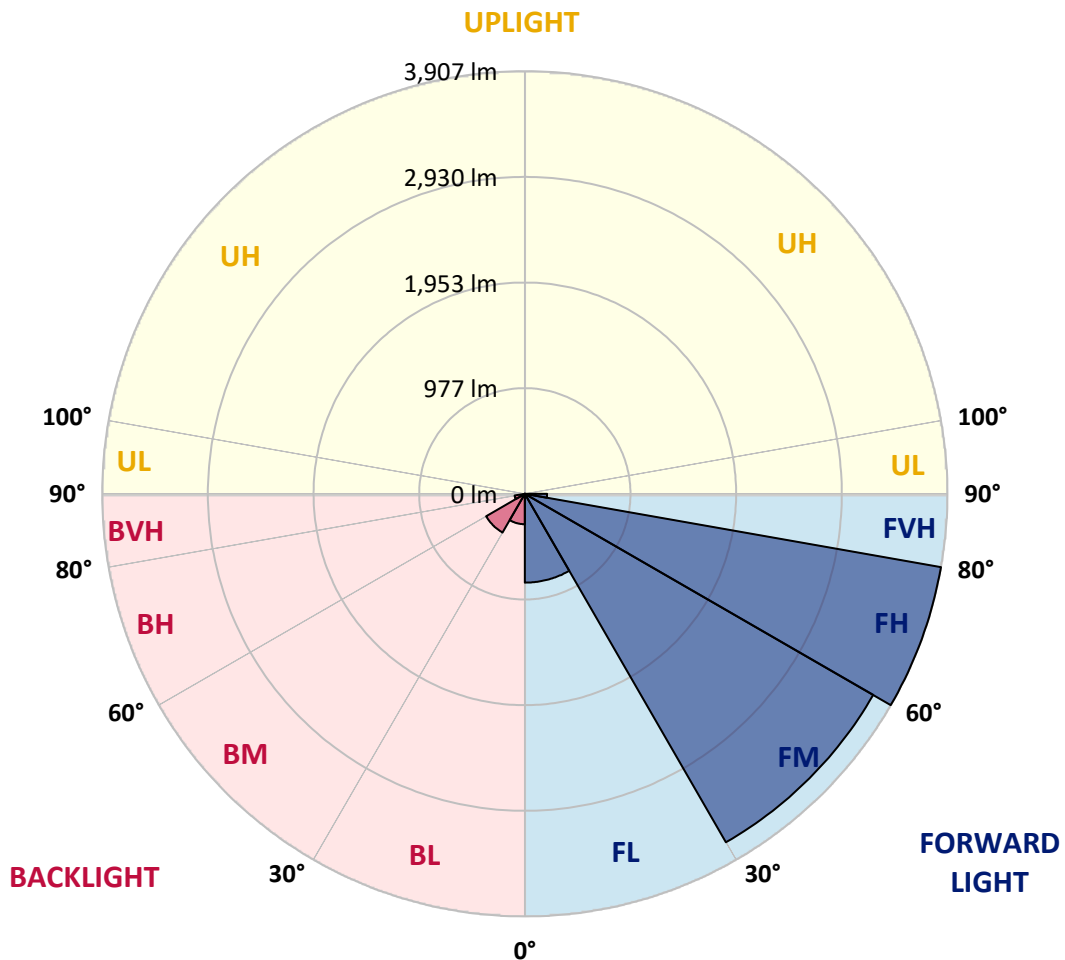


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	8.7			
FM (30°-60°)	3719.6	39.4			
FH (60°-80°)	3906.9	41.4			G2/5000
FVH (80°-90°)	206.3	2.2			G2/225
BL (0°-30°)	280.8	3.0	B1/500		
BM (30°-60°)	413.2	4.4	B1/1000		
BH (60°-80°)	95.9	1.0	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
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°	35°	38°	45°	55°	65°	75°	85°
0°	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1
2.5°	1876.5	1876.5	1894.2	1876.5	1869.8	1827.7	1830.0	1807.8	1785.6	1754.6	1725.8
5°	1898.6	1914.1	1925.2	1909.7	1885.3	1889.8	1905.3	1863.2	1803.4	1765.7	1701.5
7.5°	1889.8	1923.0	1914.1	1905.3	1889.8	1878.7	1856.5	1838.8	1810.0	1774.6	1699.2
10°	1883.1	1894.2	1896.4	1889.8	1856.5	1887.6	1863.2	1834.4	1798.9	1756.8	1663.8
12.5°	1858.8	1858.8	1878.7	1863.2	1867.6	1883.1	1872.0	1865.4	1827.7	1792.3	1710.3
15°	1832.2	1841.0	1872.0	1896.4	1918.6	1911.9	1905.3	1885.3	1852.1	1812.2	1725.8
17.5°	1838.8	1843.2	1892.0	1936.3	1925.2	1920.8	1956.2	1914.1	1880.9	1836.6	1739.1
20°	1863.2	1876.5	1931.9	1989.5	2000.5	2000.5	1987.2	1962.9	1916.4	1856.5	1763.5
22.5°	1887.6	1892.0	1982.8	2055.9	2067.0	2038.2	2049.3	1978.4	1934.1	1900.8	1787.9
25°	1980.6	1971.7	2069.2	2126.8	2120.2	2091.4	2080.3	2018.3	2000.5	1940.7	1841.0
27.5°	2106.9	2069.2	2164.5	2199.9	2164.5	2173.3	2142.3	2075.9	2038.2	2002.8	1865.4
30°	2184.4	2206.6	2257.5	2293.0	2233.2	2235.4	2219.9	2146.8	2089.2	2098.0	1947.4
32.5°	2304.1	2319.6	2357.2	2372.7	2326.2	2321.8	2306.3	2248.7	2206.6	2197.7	2058.1
35°	2432.6	2461.4	2463.6	2468.0	2425.9	2443.6	2421.5	2339.5	2361.7	2377.2	2191.1
37.5°	2558.8	2532.2	2576.6	2596.5	2550.0	2550.0	2556.6	2501.2	2541.1	2587.6	2379.4
40°	2607.6	2618.6	2696.2	2680.7	2736.1	2702.8	2727.2	2713.9	2747.1	2853.5	2645.2
42.5°	2658.5	2671.8	2775.9	2804.7	2871.2	2882.3	2917.7	2919.9	3017.4	3192.4	2900.0
45°	2756.0	2733.9	2875.6	2946.5	3055.1	3086.1	3128.2	3163.6	3316.5	3522.5	3190.2
47.5°	2844.6	2813.6	2975.3	3117.1	3250.0	3256.7	3371.9	3409.6	3591.2	3826.1	3478.2
50°	2968.7	2979.8	3048.4	3292.1	3427.3	3504.8	3584.6	3708.6	3910.2	4160.6	3686.5
52.5°	3097.2	3086.1	3201.3	3440.6	3653.3	3682.1	3861.5	4001.1	4220.4	4408.7	3779.5
55°	3254.5	3267.8	3312.1	3626.7	3897.0	3965.6	4167.2	4313.5	4552.7	4515.1	3810.6
57.5°	3411.8	3398.5	3498.2	3834.9	4202.7	4253.6	4521.7	4608.1	4769.8	4586.0	3733.0
60°	3566.9	3591.2	3633.3	4069.8	4537.2	4612.5	4825.2	4869.5	4905.0	4619.2	3673.2
62.5°	3744.1	3686.5	3817.2	4317.9	4838.5	4995.8	5164.2	4989.2	4958.2	4559.4	3535.8
65°	3832.7	3850.4	4021.0	4601.5	5239.5	5354.7	5376.9	5150.9	4991.4	4426.4	3407.3
67.5°	3970.1	3994.4	4211.5	4891.7	5651.6	5715.8	5636.1	5297.1	4962.6	4253.6	2944.3
70°	3987.8	4047.6	4466.3	5195.2	5910.8	5966.2	5904.1	5394.6	4730.0	3573.5	2180.0
72.5°	3894.7	4001.1	4528.4	5368.0	6127.9	6267.5	5919.7	5051.2	3812.8	2279.7	1116.6
75°	2942.1	3030.7	4145.1	5111.0	5742.4	5775.6	5197.4	3854.9	2171.1	777.6	285.8
77.5°	1524.2	1677.1	2767.1	3905.8	4375.5	4340.0	3617.8	2270.8	746.6	203.8	115.2
80°	875.1	912.8	1209.6	2193.3	2751.6	2616.4	2000.5	979.2	327.9	101.9	75.3
82.5°	432.0	485.2	651.3	981.4	1375.8	1132.1	751.0	587.1	183.9	55.4	66.5
85°	93.0	97.5	332.3	469.7	558.3	367.8	257.0	494.0	66.5	33.2	64.2
87.5°	66.5	64.2	93.0	210.5	155.1	95.3	152.9	259.2	15.5	15.5	13.3
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°	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1	1708.1
2.5°	1708.1	1688.2	1666.0	1623.9	1612.8	1606.2	1568.5	1566.3	1559.7	1544.2	1537.5
5°	1661.6	1628.3	1586.3	1541.9	1506.5	1442.3	1364.7	1324.8	1276.1	1278.3	1262.8
7.5°	1654.9	1592.9	1533.1	1440.0	1327.0	1207.4	1087.8	1010.2	954.9	921.6	928.3
10°	1623.9	1577.4	1479.9	1307.1	1125.4	943.8	790.9	675.7	609.2	558.3	573.8
12.5°	1637.2	1546.4	1409.0	1178.6	919.4	695.6	505.1	394.3	345.6	327.9	332.3
15°	1628.3	1546.4	1366.9	1039.0	722.2	471.9	327.9	292.4	283.6	283.6	279.1
17.5°	1654.9	1564.1	1296.0	901.7	518.4	314.6	281.4	274.7	268.1	268.1	268.1
20°	1692.6	1573.0	1247.3	748.8	365.5	276.9	263.6	259.2	257.0	257.0	254.8
22.5°	1694.8	1564.1	1156.5	580.4	281.4	261.4	250.3	248.1	248.1	243.7	243.7
25°	1708.1	1573.0	1059.0	436.4	261.4	245.9	237.1	234.8	237.1	234.8	232.6
27.5°	1741.3	1588.5	961.5	319.0	245.9	232.6	226.0	223.8	223.8	223.8	219.3
30°	1783.4	1588.5	852.9	263.6	232.6	219.3	212.7	210.5	208.3	208.3	208.3
32.5°	1872.0	1639.4	720.0	234.8	214.9	203.8	197.2	197.2	195.0	195.0	192.7
35°	1982.8	1674.9	584.9	217.1	199.4	188.3	181.7	181.7	179.5	179.5	177.2
37.5°	2120.2	1763.5	447.5	203.8	183.9	172.8	166.2	166.2	166.2	163.9	163.9
40°	2315.1	1854.3	332.3	186.1	168.4	157.3	152.9	150.6	148.4	148.4	144.0
42.5°	2523.4	1993.9	248.1	172.8	155.1	146.2	139.6	132.9	132.9	126.3	126.3
45°	2749.4	2115.7	201.6	157.3	141.8	130.7	124.1	119.6	113.0	108.6	108.6
47.5°	2970.9	2191.1	177.2	139.6	128.5	119.6	113.0	104.1	95.3	93.0	90.8
50°	3150.4	2213.2	157.3	126.3	117.4	108.6	99.7	88.6	79.8	75.3	73.1
52.5°	3150.4	2091.4	141.8	113.0	106.3	97.5	86.4	73.1	62.0	57.6	55.4
55°	3150.4	1898.6	126.3	104.1	95.3	88.6	73.1	59.8	48.7	42.1	39.9
57.5°	3103.8	1666.0	113.0	93.0	84.2	75.3	62.0	46.5	35.4	28.8	28.8
60°	2975.3	1422.3	97.5	82.0	73.1	62.0	48.7	33.2	22.2	15.5	15.5
62.5°	2811.4	1132.1	84.2	68.7	59.8	51.0	37.7	22.2	8.9	4.4	4.4
65°	2525.6	835.2	73.1	57.6	46.5	37.7	24.4	8.9	0.0	0.0	0.0
67.5°	2084.7	558.3	57.6	46.5	39.9	26.6	15.5	2.2	0.0	0.0	0.0
70°	1466.6	316.8	44.3	33.2	28.8	17.7	4.4	0.0	0.0	0.0	0.0
72.5°	602.6	139.6	31.0	24.4	19.9	8.9	0.0	0.0	0.0	0.0	0.0
75°	163.9	62.0	19.9	13.3	11.1	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	95.3	42.1	8.9	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.3	19.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.3	11.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)