

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: P677136

Luminaire Tested: **CCW-SA-2D-735-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677136
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-735-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9086.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

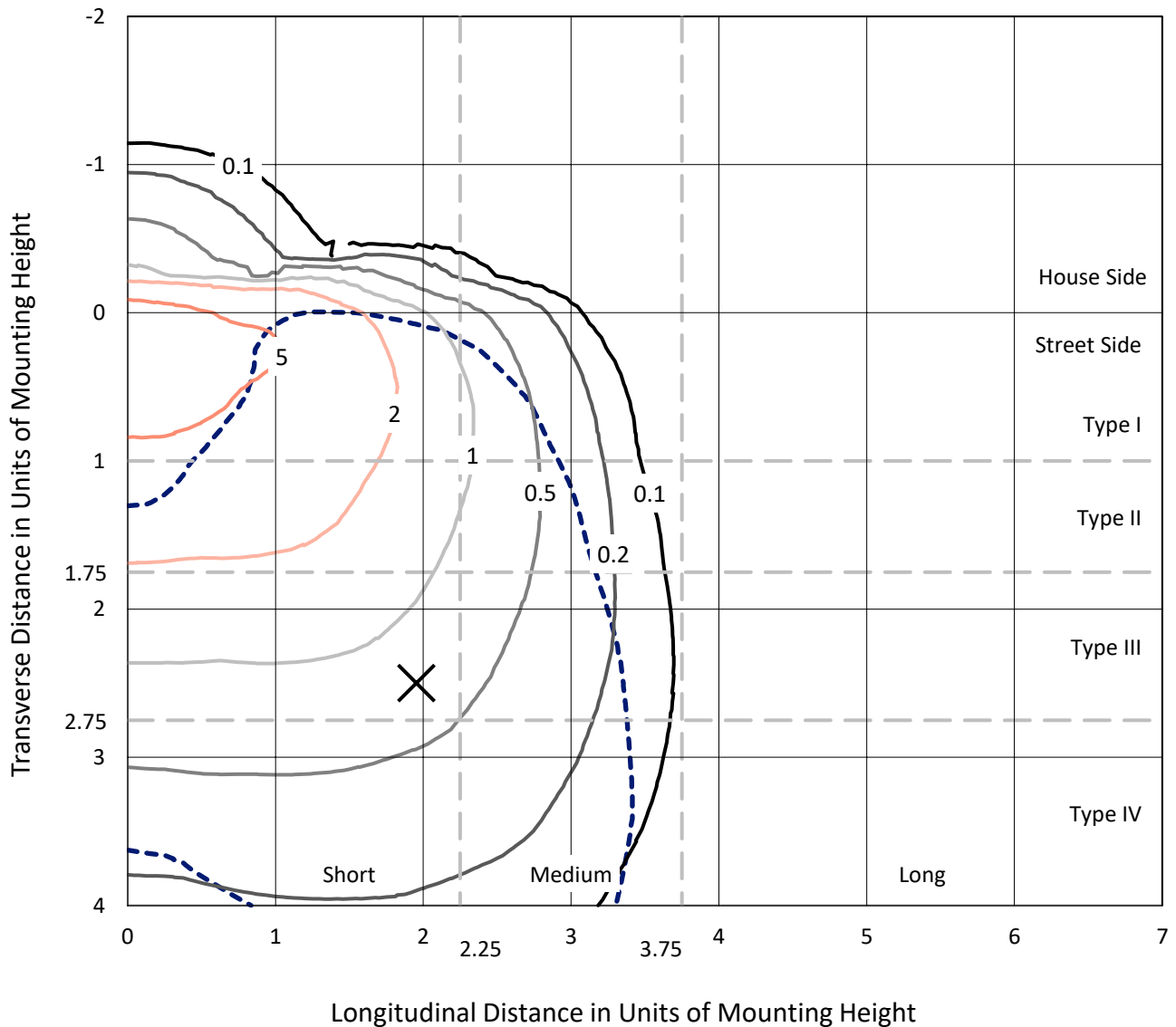
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

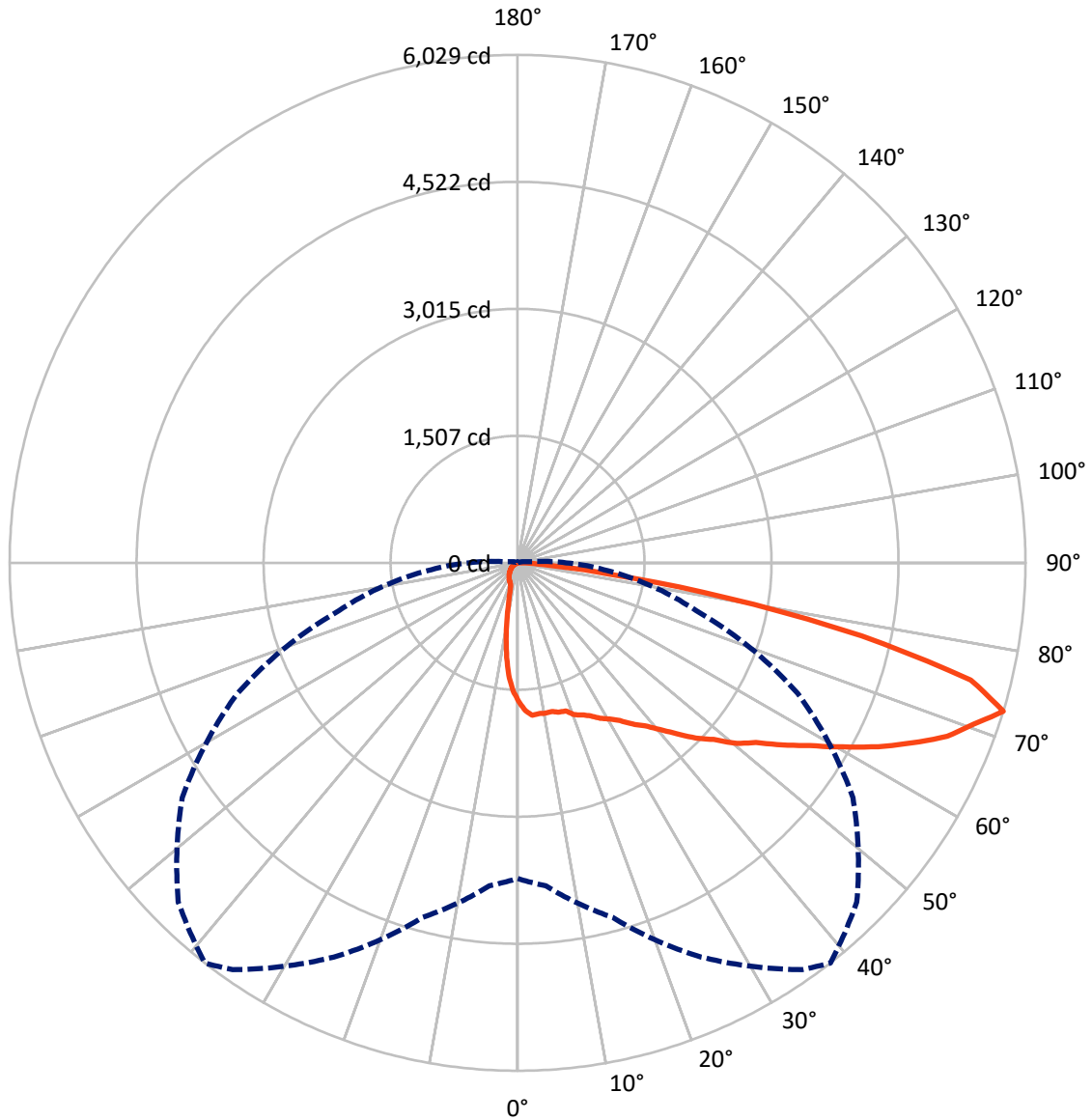
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 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	761.0	0.0	761.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8325.3	0.0	8325.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	9086.3	0.0	9086.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.6
10°-20°	352.1	3.9
20°-30°	564.5	6.2
30°-40°	852.3	9.4
40°-50°	1297.2	14.3
50°-60°	1826.3	20.1
60°-70°	2230.8	24.6
70°-80°	1619.8	17.8
80°-90°	199.5	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°	9086.3	100.0
0°-180°	9086.3	100.0

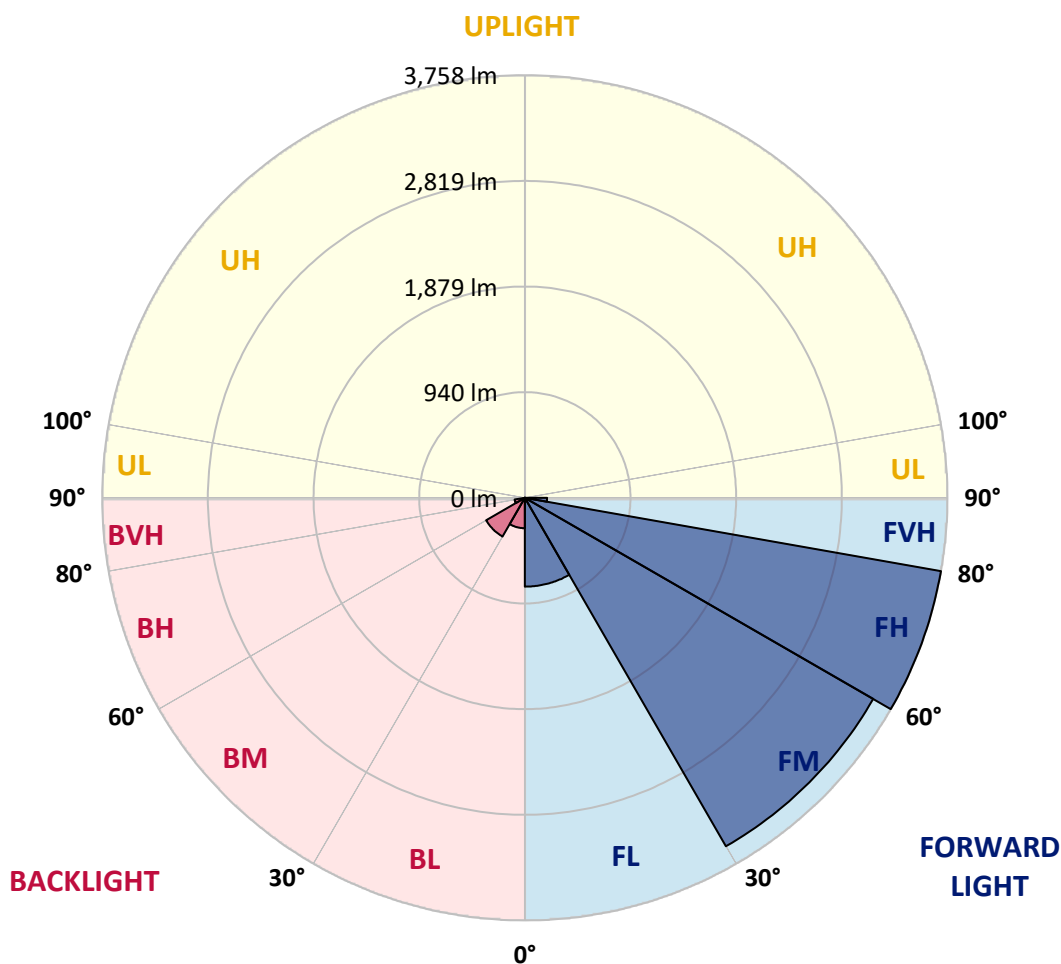


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.3	8.7			
FM (30°-60°)	3578.2	39.4			
FH (60°-80°)	3758.3	41.4			G2/5000
FVH (80°-90°)	198.5	2.2			G2/225
BL (0°-30°)	270.2	3.0	B1/500		
BM (30°-60°)	397.5	4.4	B1/1000		
BH (60°-80°)	92.3	1.0	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2
2.5°	1805.1	1805.1	1822.2	1805.1	1798.7	1758.2	1760.4	1739.1	1717.7	1687.9	1660.2
5°	1826.4	1841.4	1852.0	1837.1	1813.7	1817.9	1832.8	1792.3	1734.8	1698.6	1636.8
7.5°	1817.9	1849.9	1841.4	1832.8	1817.9	1807.3	1785.9	1768.9	1741.2	1707.1	1634.6
10°	1811.5	1822.2	1824.3	1817.9	1785.9	1815.8	1792.3	1764.6	1730.5	1690.0	1600.5
12.5°	1788.1	1788.1	1807.3	1792.3	1796.6	1811.5	1800.9	1794.5	1758.2	1724.1	1645.3
15°	1762.5	1771.0	1800.9	1824.3	1845.6	1839.2	1832.8	1813.7	1781.7	1743.3	1660.2
17.5°	1768.9	1773.2	1820.0	1862.7	1852.0	1847.7	1881.8	1841.4	1809.4	1766.8	1673.0
20°	1792.3	1805.1	1858.4	1913.8	1924.5	1924.5	1911.7	1888.2	1843.5	1785.9	1696.4
22.5°	1815.8	1820.0	1907.4	1977.8	1988.4	1960.7	1971.4	1903.2	1860.5	1828.6	1719.9
25°	1905.3	1896.8	1990.5	2046.0	2039.6	2011.9	2001.2	1941.5	1924.5	1866.9	1771.0
27.5°	2026.8	1990.5	2082.2	2116.3	2082.2	2090.7	2060.9	1996.9	1960.7	1926.6	1794.5
30°	2101.4	2122.7	2171.7	2205.8	2148.2	2150.4	2135.5	2065.1	2009.7	2018.2	1873.3
32.5°	2216.4	2231.4	2267.6	2282.5	2237.8	2233.5	2218.6	2163.2	2122.7	2114.1	1979.9
35°	2340.1	2367.8	2369.9	2374.2	2333.7	2350.7	2329.4	2250.5	2271.9	2286.8	2107.8
37.5°	2461.5	2436.0	2478.6	2497.8	2453.0	2453.0	2459.4	2406.1	2444.5	2489.2	2288.9
40°	2508.4	2519.1	2593.7	2578.8	2632.0	2600.1	2623.5	2610.7	2642.7	2745.0	2544.7
42.5°	2557.4	2570.2	2670.4	2698.1	2762.0	2772.7	2806.8	2808.9	2902.7	3071.1	2789.7
45°	2651.2	2629.9	2766.3	2834.5	2938.9	2968.8	3009.3	3043.4	3190.4	3388.6	3068.9
47.5°	2736.5	2706.6	2862.2	2998.6	3126.5	3132.9	3243.7	3279.9	3454.7	3680.6	3346.0
50°	2855.8	2866.5	2932.5	3167.0	3297.0	3371.6	3448.3	3567.6	3761.6	4002.4	3546.3
52.5°	2979.4	2968.8	3079.6	3309.8	3514.3	3542.1	3714.7	3848.9	4059.9	4241.1	3635.8
55°	3130.7	3143.5	3186.1	3488.8	3748.8	3814.8	4008.8	4149.4	4379.6	4343.4	3665.7
57.5°	3282.0	3269.3	3365.2	3689.1	4042.9	4091.9	4349.8	4432.9	4588.5	4411.6	3591.1
60°	3431.2	3454.7	3495.2	3915.0	4364.7	4437.2	4641.8	4684.4	4718.5	4443.6	3533.5
62.5°	3601.7	3546.3	3672.1	4153.7	4654.5	4805.9	4967.8	4799.5	4769.6	4386.0	3401.4
65°	3687.0	3704.0	3868.1	4426.5	5040.3	5151.1	5172.4	4955.0	4801.6	4258.1	3277.8
67.5°	3819.1	3842.6	4051.4	4705.7	5436.7	5498.5	5421.8	5095.7	4773.9	4091.9	2832.4
70°	3836.2	3893.7	4296.5	4997.7	5686.0	5739.3	5679.6	5189.5	4550.1	3437.6	2097.1
72.5°	3746.6	3848.9	4356.2	5163.9	5894.9	6029.2	5694.6	4859.1	3667.8	2193.0	1074.1
75°	2830.2	2915.5	3987.5	4916.7	5524.1	5556.0	4999.8	3708.3	2088.6	748.1	274.9
77.5°	1466.3	1613.3	2661.9	3757.3	4209.1	4175.0	3480.2	2184.5	718.2	196.1	110.8
80°	841.8	878.1	1163.6	2109.9	2646.9	2516.9	1924.5	942.0	315.4	98.0	72.5
82.5°	415.6	466.7	626.6	944.1	1323.5	1089.0	722.5	564.8	176.9	53.3	63.9
85°	89.5	93.8	319.7	451.8	537.1	353.8	247.2	475.3	63.9	32.0	61.8
87.5°	63.9	61.8	89.5	202.5	149.2	91.6	147.1	249.4	14.9	14.9	12.8
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°	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2
2.5°	1643.2	1624.0	1602.7	1562.2	1551.5	1545.1	1508.9	1506.8	1500.4	1485.4	1479.1
5°	1598.4	1566.4	1525.9	1483.3	1449.2	1387.4	1312.8	1274.5	1227.6	1229.7	1214.8
7.5°	1592.0	1532.3	1474.8	1385.3	1276.6	1161.5	1046.4	971.8	918.5	886.6	893.0
10°	1562.2	1517.4	1423.6	1257.4	1082.6	907.9	760.8	650.0	586.1	537.1	552.0
12.5°	1575.0	1487.6	1355.4	1133.8	884.4	669.2	485.9	379.4	332.5	315.4	319.7
15°	1566.4	1487.6	1314.9	999.5	694.8	453.9	315.4	281.3	272.8	272.8	268.5
17.5°	1592.0	1504.6	1246.8	867.4	498.7	302.6	270.7	264.3	257.9	257.9	257.9
20°	1628.2	1513.2	1199.9	720.3	351.6	266.4	253.6	249.4	247.2	247.2	245.1
22.5°	1630.4	1504.6	1112.5	558.4	270.7	251.5	240.8	238.7	238.7	234.4	234.4
25°	1643.2	1513.2	1018.7	419.8	251.5	236.6	228.0	225.9	228.0	225.9	223.8
27.5°	1675.1	1528.1	924.9	306.9	236.6	223.8	217.4	215.3	215.3	215.3	211.0
30°	1715.6	1528.1	820.5	253.6	223.8	211.0	204.6	202.5	200.3	200.3	200.3
32.5°	1800.9	1577.1	692.6	225.9	206.7	196.1	189.7	189.7	187.5	187.5	185.4
35°	1907.4	1611.2	562.6	208.9	191.8	181.2	174.8	174.8	172.6	172.6	170.5
37.5°	2039.6	1696.4	430.5	196.1	176.9	166.2	159.8	159.8	159.8	157.7	157.7
40°	2227.1	1783.8	319.7	179.0	162.0	151.3	147.1	144.9	142.8	142.8	138.5
42.5°	2427.4	1918.1	238.7	166.2	149.2	140.7	134.3	127.9	127.9	121.5	121.5
45°	2644.8	2035.3	193.9	151.3	136.4	125.7	119.3	115.1	108.7	104.4	104.4
47.5°	2857.9	2107.8	170.5	134.3	123.6	115.1	108.7	100.2	91.6	89.5	87.4
50°	3030.6	2129.1	151.3	121.5	113.0	104.4	95.9	85.2	76.7	72.5	70.3
52.5°	3030.6	2011.9	136.4	108.7	102.3	93.8	83.1	70.3	59.7	55.4	53.3
55°	3030.6	1826.4	121.5	100.2	91.6	85.2	70.3	57.5	46.9	40.5	38.4
57.5°	2985.8	1602.7	108.7	89.5	81.0	72.5	59.7	44.8	34.1	27.7	27.7
60°	2862.2	1368.2	93.8	78.9	70.3	59.7	46.9	32.0	21.3	14.9	14.9
62.5°	2704.5	1089.0	81.0	66.1	57.5	49.0	36.2	21.3	8.5	4.3	4.3
65°	2429.6	803.5	70.3	55.4	44.8	36.2	23.4	8.5	0.0	0.0	0.0
67.5°	2005.5	537.1	55.4	44.8	38.4	25.6	14.9	2.1	0.0	0.0	0.0
70°	1410.9	304.8	42.6	32.0	27.7	17.0	4.3	0.0	0.0	0.0	0.0
72.5°	579.7	134.3	29.8	23.4	19.2	8.5	0.0	0.0	0.0	0.0	0.0
75°	157.7	59.7	19.2	12.8	10.7	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	91.6	40.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.5	19.2	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	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)