

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: P676881

Luminaire Tested: **CCW-SA-2D-760-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676881
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-760-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

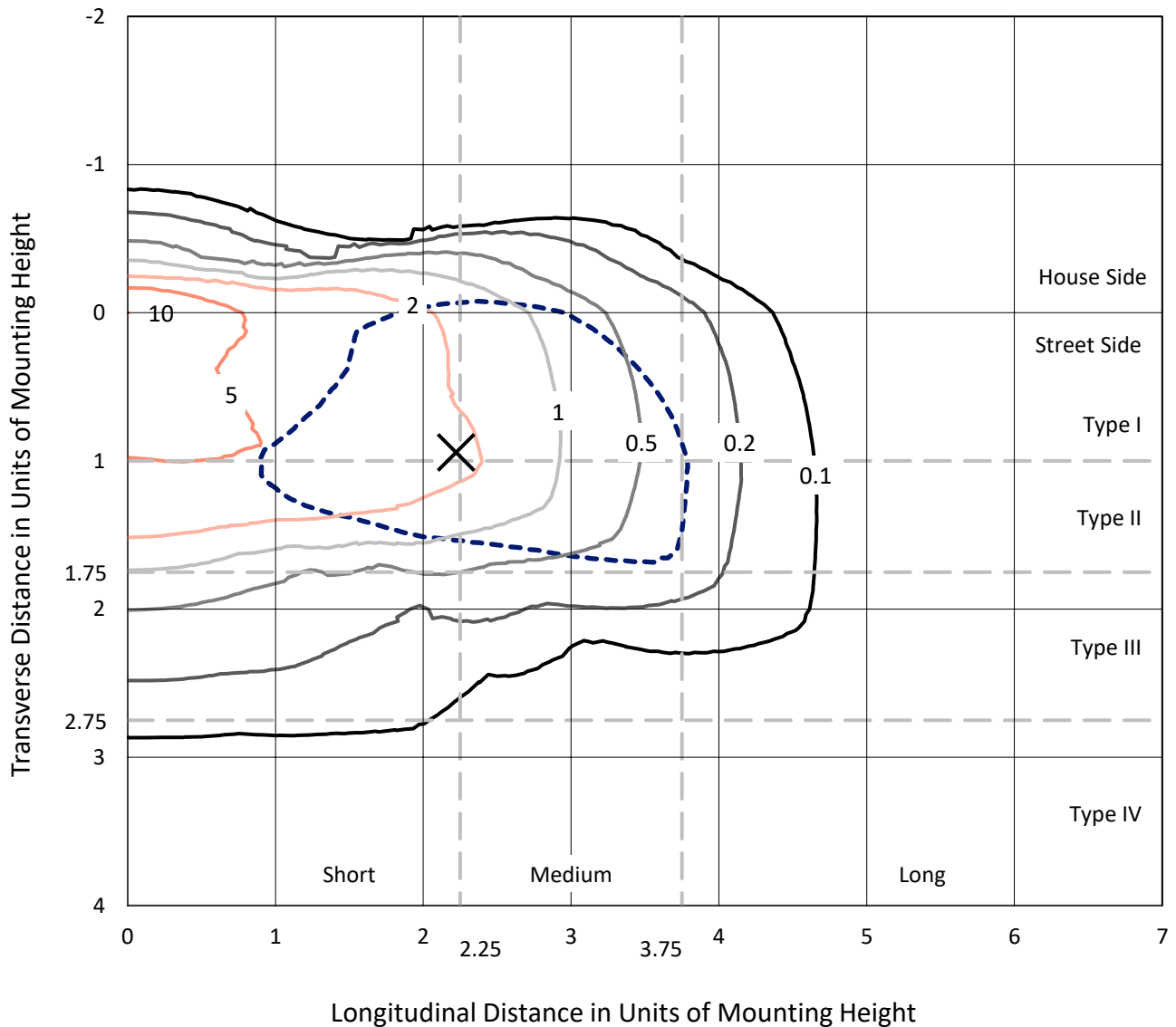
Lumens per Lamp: N/A
Luminaire Lumens: 9174 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

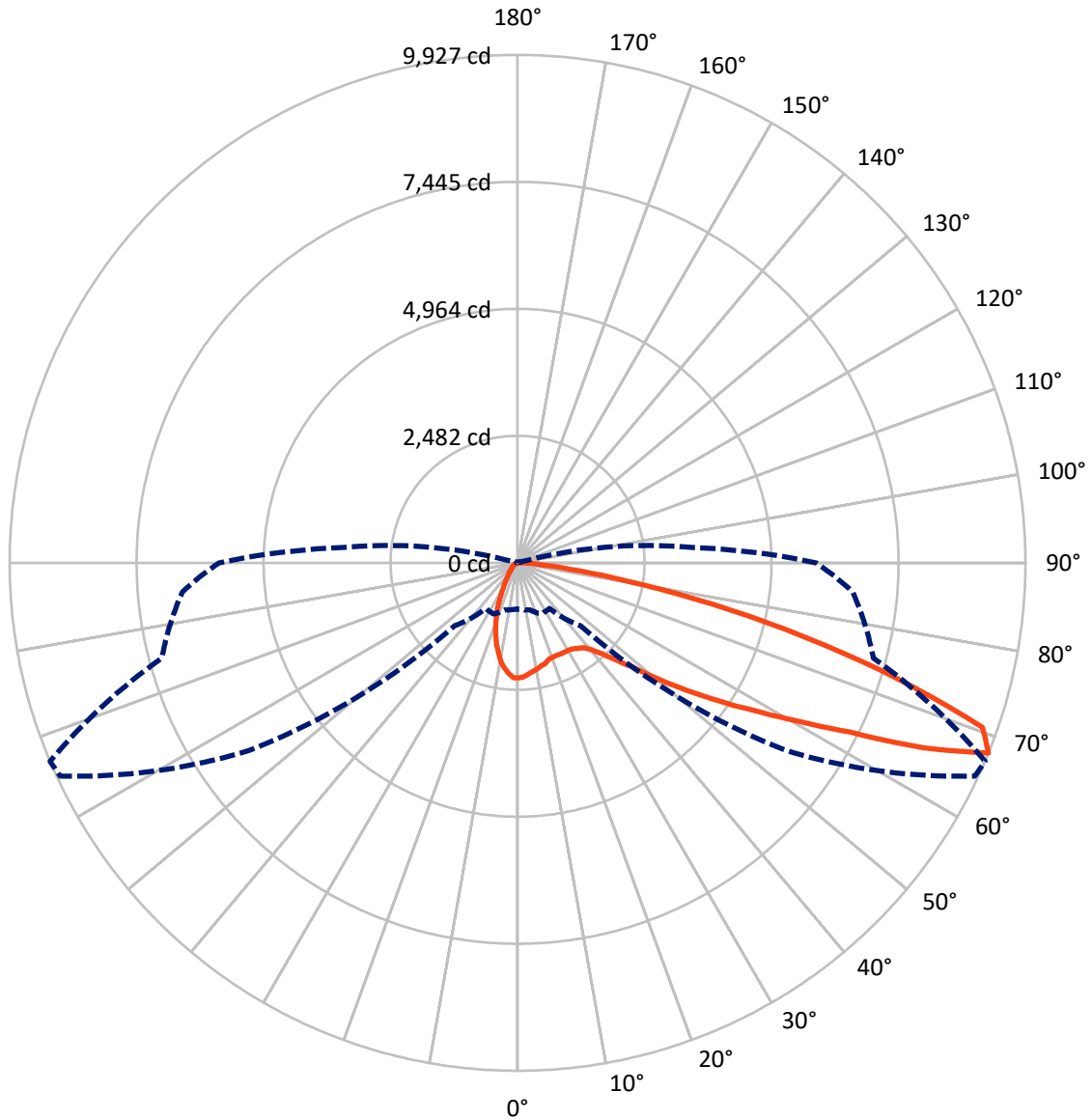
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1154.6	0.0	1154.6
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	8019.4	0.0	8019.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	9174.0	0.0	9174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.1
10°-20°	421.2	4.6
20°-30°	598.9	6.5
30°-40°	872.1	9.5
40°-50°	1349.7	14.7
50°-60°	2071.4	22.6
60°-70°	2245.3	24.5
70°-80°	1266.7	13.8
80°-90°	159.2	1.7
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°	9174.0	100.0
0°-180°	9174.0	100.0

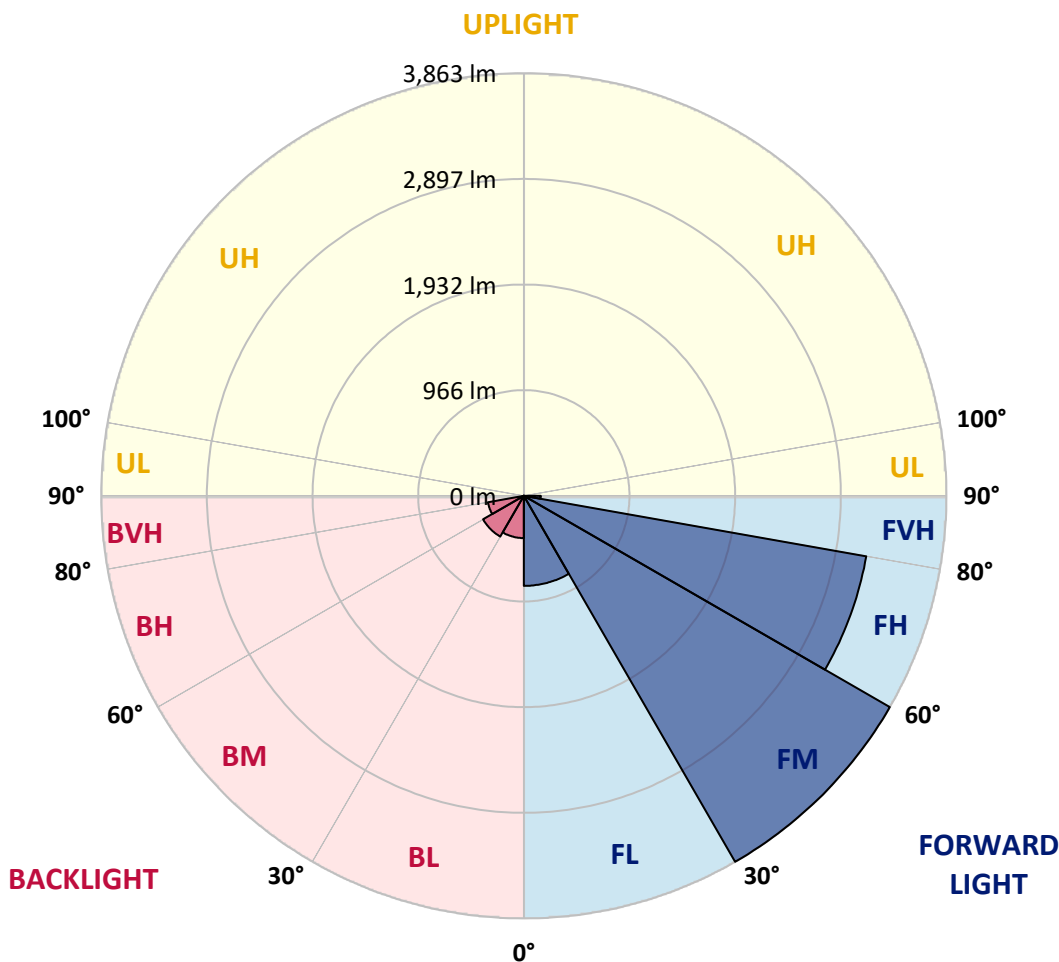


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.2	9.0			
FM (30°-60°)	3863.0	42.1			
FH (60°-80°)	3178.6	34.6			G2/5000
FVH (80°-90°)	154.6	1.7			G2/225
BL (0°-30°)	386.5	4.2	B1/500		
BM (30°-60°)	430.0	4.7	B1/1000		
BH (60°-80°)	333.5	3.6	B1/500		G1/500
BVH (80°-90°)	4.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2152.9	2164.0	2179.5	2201.6	2217.0	2208.2	2214.8	2252.4	2232.5	2250.2	2241.4
5°	2033.6	2044.6	2066.7	2064.5	2082.2	2115.4	2159.6	2208.2	2186.1	2239.2	2259.0
7.5°	1909.8	1905.4	1905.4	1951.8	1989.4	2035.8	2060.1	2139.7	2141.9	2188.3	2236.9
10°	1797.1	1810.3	1832.4	1850.1	1885.5	1951.8	2022.5	2084.4	2108.7	2201.6	2214.8
12.5°	1728.5	1735.2	1761.7	1777.2	1823.6	1887.7	1962.8	2042.4	2062.3	2157.4	2221.5
15°	1699.8	1715.3	1724.1	1752.9	1777.2	1836.9	1892.1	1982.7	2040.2	2115.4	2194.9
17.5°	1721.9	1715.3	1719.7	1728.5	1757.3	1810.3	1870.0	1960.6	1980.5	2106.5	2225.9
20°	1750.6	1752.9	1739.6	1735.2	1728.5	1779.4	1828.0	1945.2	1967.3	2106.5	2245.8
22.5°	1828.0	1803.7	1828.0	1792.6	1757.3	1779.4	1825.8	1947.4	1962.8	2104.3	2265.7
25°	1923.1	1927.5	1934.1	1859.0	1808.1	1792.6	1841.3	1954.0	1967.3	2122.0	2274.5
27.5°	2057.9	2077.8	2044.6	2007.1	1905.4	1828.0	1839.1	1949.6	1973.9	2113.2	2296.6
30°	2239.2	2223.7	2228.1	2141.9	2042.4	1920.9	1889.9	1960.6	1978.3	2124.2	2338.6
32.5°	2396.1	2378.4	2409.4	2378.4	2221.5	2053.5	1949.6	1982.7	2002.6	2150.7	2374.0
35°	2493.3	2515.5	2564.1	2597.2	2464.6	2225.9	2049.1	2042.4	2051.3	2164.0	2400.5
37.5°	2643.7	2683.4	2723.2	2807.2	2692.3	2438.1	2206.0	2119.8	2104.3	2228.1	2413.8
40°	2807.2	2796.2	2913.3	3012.8	3008.4	2736.5	2424.8	2256.8	2234.7	2329.8	2502.2
42.5°	2944.3	2933.2	3063.6	3227.2	3244.9	3023.8	2674.6	2451.4	2431.5	2486.7	2610.5
45°	3123.3	3132.2	3286.9	3481.4	3545.5	3404.0	3012.8	2729.9	2718.8	2701.1	2816.1
47.5°	3282.5	3331.1	3463.7	3693.6	3925.7	3797.5	3410.7	3136.6	3059.2	3019.4	3134.4
50°	3393.0	3437.2	3598.6	3843.9	4268.3	4350.1	3857.2	3569.8	3572.0	3474.8	3536.7
52.5°	3393.0	3390.8	3521.2	3843.9	4507.0	4927.0	4454.0	4115.8	4133.5	4031.8	4036.2
55°	3065.8	3059.2	3218.4	3561.0	4480.5	5481.8	5358.0	4807.7	4763.4	4566.7	4586.6
57.5°	2469.0	2484.5	2606.1	3017.2	4135.7	5740.5	6434.5	5585.7	5435.4	5028.7	5028.7
60°	1801.5	1788.2	1878.9	2166.2	3313.4	5643.2	7318.7	6503.0	6266.5	5411.1	5353.6
62.5°	1370.5	1368.2	1392.6	1489.8	2102.1	4920.4	7698.9	7670.1	7285.5	5786.9	5705.1
65°	1107.4	1111.8	1145.0	1213.5	1284.3	3355.4	7497.7	9062.7	8711.2	6346.1	6078.6
67.5°	904.1	915.1	954.9	1103.0	1087.5	1737.4	6385.9	9860.7	9927.0	7199.3	6580.4
70°	696.3	714.0	760.4	970.4	1047.7	1156.0	4427.5	9462.8	9639.6	7729.8	6277.6
72.5°	473.0	470.8	570.3	786.9	1058.8	1058.8	2464.6	7621.5	7789.5	7126.4	5453.1
75°	256.4	271.9	378.0	594.6	970.4	1023.4	1403.6	5576.9	5813.4	5541.5	4217.5
77.5°	139.3	141.5	210.0	389.0	806.8	977.0	937.2	3793.1	3885.9	3342.1	2309.9
80°	72.9	75.2	110.5	254.2	557.0	906.3	780.3	2261.3	2172.8	1282.0	762.6
82.5°	33.2	35.4	55.3	159.1	355.9	714.0	674.2	1091.9	1007.9	358.1	232.1
85°	13.3	13.3	24.3	95.0	207.8	351.5	576.9	548.2	457.6	108.3	114.9
87.5°	4.4	4.4	6.6	37.6	84.0	210.0	307.2	289.6	198.9	39.8	61.9
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°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2232.5	2256.8	2250.2	2245.8	2203.8	2199.4	2194.9	2155.2	2168.4	2135.3	2157.4
5°	2245.8	2259.0	2223.7	2157.4	2097.7	2031.4	1980.5	1945.2	1881.1	1856.7	1852.3
7.5°	2232.5	2232.5	2159.6	2053.5	1936.3	1828.0	1691.0	1593.7	1520.8	1465.5	1485.4
10°	2214.8	2188.3	2113.2	1925.3	1713.1	1549.5	1352.8	1209.1	1100.8	1065.4	1043.3
12.5°	2214.8	2168.4	2000.4	1744.0	1469.9	1222.4	988.1	800.2	696.3	634.4	625.5
15°	2194.9	2126.4	1918.6	1573.8	1233.4	897.4	630.0	468.6	380.2	355.9	347.0
17.5°	2199.4	2117.6	1797.1	1372.7	957.1	596.8	384.6	296.2	274.1	263.0	265.2
20°	2208.2	2117.6	1688.8	1175.9	689.6	371.3	265.2	249.8	238.7	234.3	236.5
22.5°	2236.9	2075.6	1578.2	974.8	466.4	267.5	234.3	218.8	210.0	203.4	201.1
25°	2241.4	2068.9	1472.1	775.9	320.5	225.5	205.6	187.9	176.8	168.0	165.8
27.5°	2234.7	2040.2	1324.0	576.9	240.9	201.1	174.6	156.9	141.5	134.8	132.6
30°	2259.0	1987.2	1198.0	415.6	203.4	174.6	148.1	128.2	114.9	106.1	106.1
32.5°	2261.3	1940.7	1058.8	296.2	185.7	154.7	126.0	103.9	90.6	86.2	86.2
35°	2263.5	1898.7	904.1	225.5	165.8	132.6	103.9	86.2	77.4	70.7	70.7
37.5°	2270.1	1867.8	762.6	190.1	148.1	112.7	86.2	70.7	61.9	59.7	59.7
40°	2283.4	1825.8	614.5	168.0	128.2	95.0	72.9	59.7	50.8	48.6	46.4
42.5°	2318.7	1814.8	490.7	150.3	114.9	79.6	59.7	48.6	42.0	37.6	35.4
45°	2464.6	1843.5	380.2	139.3	97.3	66.3	50.8	39.8	30.9	28.7	26.5
47.5°	2703.3	1938.5	300.6	123.8	81.8	55.3	42.0	30.9	24.3	22.1	19.9
50°	3065.8	2155.2	245.4	110.5	68.5	46.4	33.2	24.3	17.7	15.5	15.5
52.5°	3541.1	2446.9	212.2	97.3	55.3	39.8	26.5	17.7	13.3	11.1	11.1
55°	4027.4	2791.8	198.9	84.0	46.4	33.2	19.9	13.3	8.8	6.6	6.6
57.5°	4473.9	3015.0	192.3	68.5	39.8	24.3	15.5	8.8	4.4	2.2	2.2
60°	4752.4	3178.6	172.4	55.3	30.9	19.9	11.1	4.4	2.2	0.0	0.0
62.5°	5119.3	3344.4	141.5	42.0	22.1	13.3	6.6	2.2	0.0	0.0	0.0
65°	5603.4	3530.0	110.5	33.2	17.7	8.8	4.4	2.2	0.0	0.0	0.0
67.5°	5835.5	3432.8	75.2	24.3	11.1	4.4	2.2	0.0	0.0	0.0	0.0
70°	5371.3	2891.2	53.0	17.7	6.6	2.2	2.2	0.0	0.0	0.0	0.0
72.5°	4515.9	2265.7	39.8	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	3328.9	1416.9	30.9	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1766.1	528.3	22.1	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	521.7	154.7	15.5	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	172.4	46.4	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.4	17.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.8	6.6	4.4	4.4	2.2	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)