

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: P675607

Luminaire Tested: **CCW-SA-2D-830-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675607
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

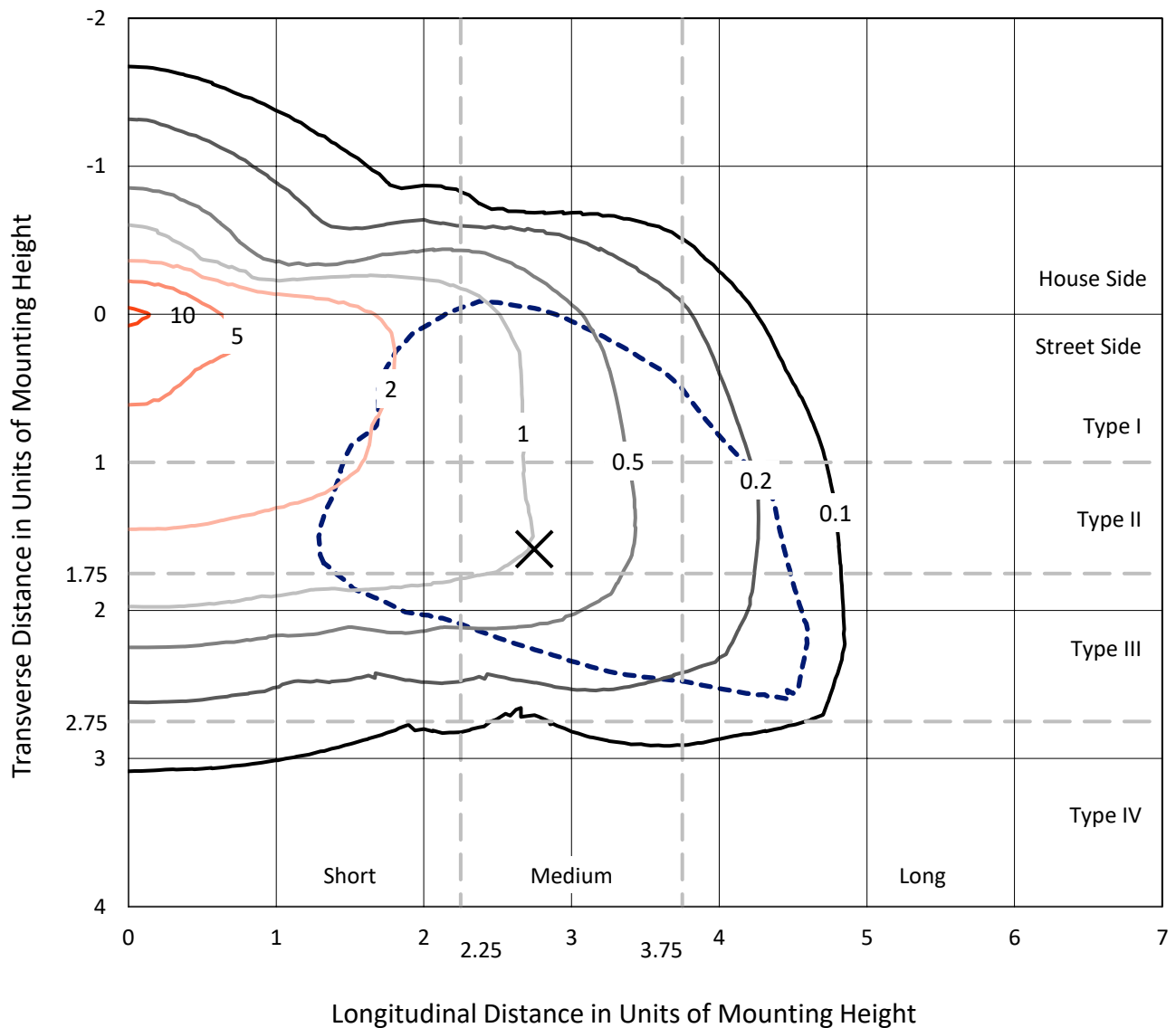
Lumens per Lamp: N/A
Luminaire Lumens: 8762.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
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

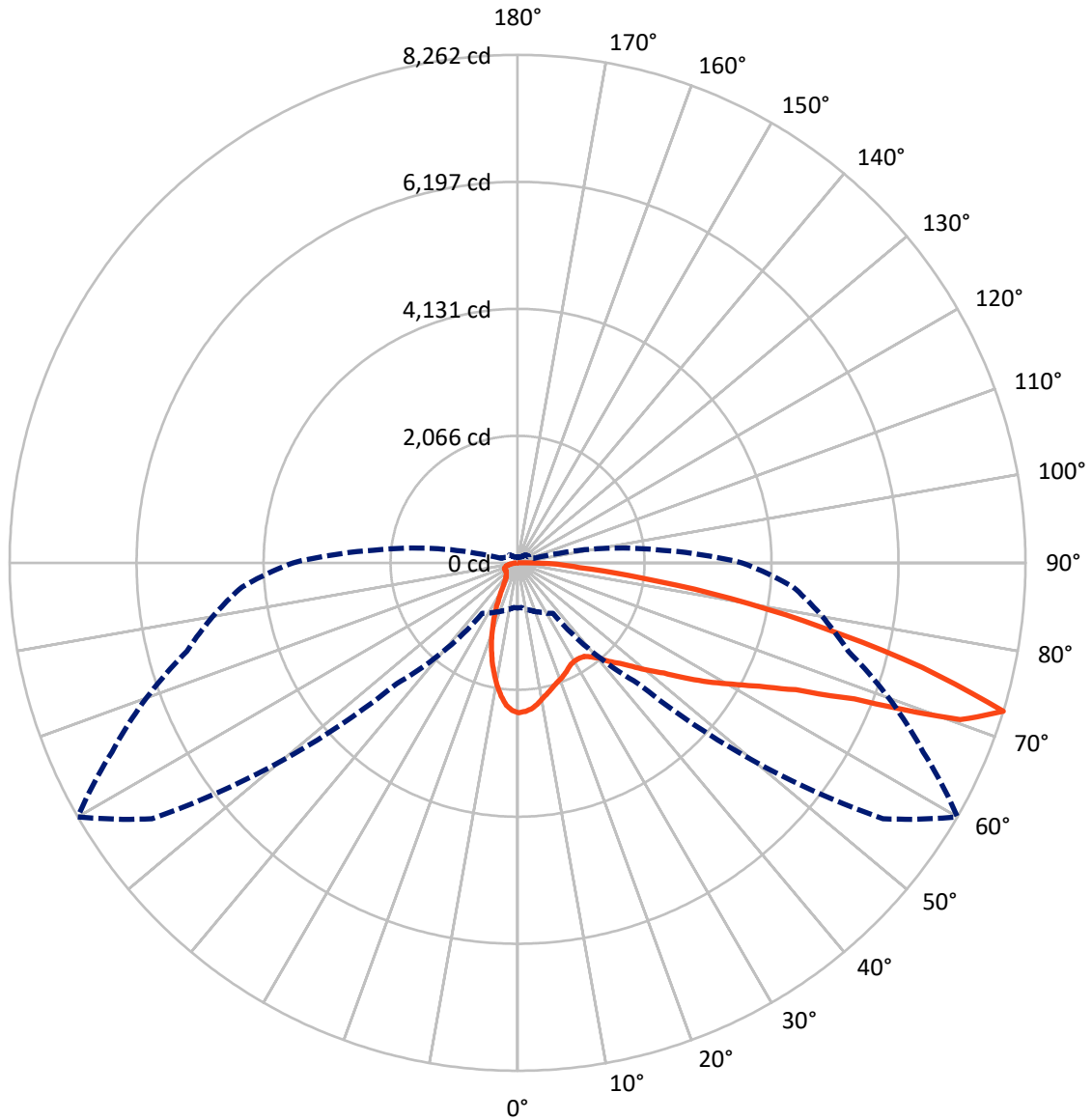
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.2	0.0	1505.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7257.0	0.0	7257.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	8762.2	0.0	8762.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	2.4
10°-20°	479.6	5.5
20°-30°	613.7	7.0
30°-40°	785.1	9.0
40°-50°	1076.8	12.3
50°-60°	1557.5	17.8
60°-70°	2136.6	24.4
70°-80°	1603.3	18.3
80°-90°	298.0	3.4
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°	8762.2	100.0
0°-180°	8762.2	100.0

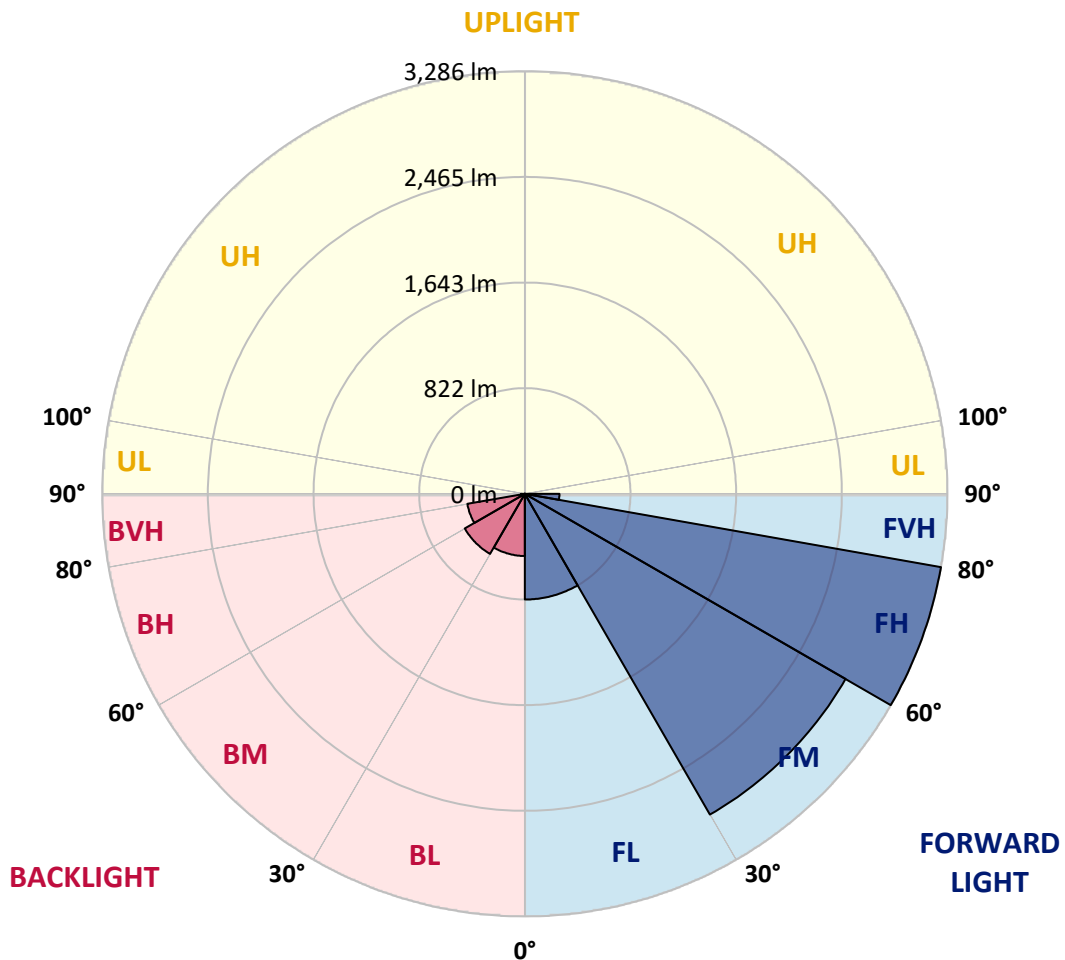


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.6	9.4			
FM (30°-60°)	2880.1	32.9			
FH (60°-80°)	3286.4	37.5			G2/5000
FVH (80°-90°)	269.0	3.1			G3/500
BL (0°-30°)	483.2	5.5	B1/500		
BM (30°-60°)	539.4	6.2	B1/1000		
BH (60°-80°)	453.6	5.2	B1/500		G1/500
BVH (80°-90°)	29.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8
2.5°	2387.7	2410.5	2417.0	2417.0	2436.6	2413.7	2446.4	2420.3	2426.8	2436.6	2430.1
5°	2273.5	2312.6	2289.8	2332.2	2315.9	2345.2	2384.4	2384.4	2374.6	2394.2	2377.9
7.5°	2162.6	2149.5	2188.7	2188.7	2214.8	2253.9	2286.5	2319.2	2322.4	2328.9	2325.7
10°	2012.5	2028.9	2048.4	2074.5	2107.1	2146.3	2214.8	2240.9	2247.4	2286.5	2276.8
12.5°	1888.6	1911.4	1924.5	1976.7	2006.0	2061.5	2139.8	2175.6	2178.9	2234.3	2234.3
15°	1797.3	1810.3	1839.7	1859.2	1924.5	2002.8	2077.8	2110.4	2146.3	2205.0	2188.7
17.5°	1735.3	1751.6	1764.6	1790.7	1852.7	1918.0	2035.4	2054.9	2097.4	2182.2	2162.6
20°	1699.4	1702.7	1722.2	1738.6	1794.0	1856.0	1960.4	2012.5	2068.0	2143.0	2123.4
22.5°	1705.9	1692.9	1689.6	1712.5	1722.2	1781.0	1908.2	1963.6	2041.9	2130.0	2097.4
25°	1719.0	1722.2	1715.7	1696.1	1699.4	1751.6	1836.4	1908.2	1996.2	2126.7	2061.5
27.5°	1751.6	1767.9	1741.8	1722.2	1702.7	1722.2	1810.3	1862.5	1960.4	2143.0	2058.2
30°	1784.2	1800.5	1794.0	1764.6	1725.5	1719.0	1781.0	1846.2	1940.8	2156.1	2058.2
32.5°	1833.1	1856.0	1833.1	1842.9	1797.3	1767.9	1790.7	1849.5	1960.4	2201.7	2061.5
35°	1888.6	1908.2	1914.7	1891.9	1882.1	1826.6	1839.7	1869.0	1979.9	2253.9	2094.1
37.5°	1950.6	1973.4	1993.0	1996.2	1963.6	1931.0	1924.5	1940.8	2028.9	2345.2	2130.0
40°	1993.0	2006.0	2045.2	2077.8	2087.6	2041.9	2038.6	2038.6	2116.9	2426.8	2195.2
42.5°	2064.7	2058.2	2113.7	2172.4	2188.7	2162.6	2169.1	2195.2	2240.9	2544.2	2299.6
45°	2100.6	2094.1	2159.3	2257.2	2332.2	2319.2	2325.7	2335.5	2377.9	2730.1	2475.7
47.5°	2149.5	2156.1	2250.7	2361.6	2439.8	2485.5	2521.4	2518.1	2550.7	2919.3	2671.4
50°	2198.5	2211.5	2325.7	2443.1	2580.1	2658.4	2710.6	2746.5	2779.1	3118.3	2896.5
52.5°	2293.1	2306.1	2433.3	2560.5	2736.7	2850.8	2981.3	2978.0	2981.3	3317.3	3121.6
55°	2430.1	2433.3	2508.3	2655.1	2893.2	3102.0	3281.4	3301.0	3245.5	3565.2	3379.2
57.5°	2586.6	2599.7	2664.9	2775.8	3017.2	3343.4	3617.4	3656.5	3506.5	3767.4	3614.1
60°	2733.4	2743.2	2844.3	2971.5	3232.5	3646.7	3956.6	4002.3	3839.2	4015.3	3858.7
62.5°	2567.1	2616.0	2795.4	3085.7	3610.8	4106.6	4387.1	4416.5	4162.1	4266.5	4119.7
65°	2054.9	2087.6	2345.2	2815.0	3636.9	4941.7	5052.6	4974.3	4605.7	4589.4	4514.4
67.5°	1144.9	1171.0	1347.1	1839.7	3062.8	5254.8	6484.5	5910.4	5293.9	5075.4	5049.3
70°	903.5	910.0	932.9	1034.0	1699.4	4631.8	7613.1	7639.2	6419.3	5744.1	5163.5
72.5°	733.9	730.6	799.1	887.2	1004.6	2779.1	7257.6	8262.2	7280.4	5567.9	4498.1
75°	561.0	570.8	658.9	786.1	919.8	1308.0	5414.6	6797.6	6820.5	5189.6	3793.5
77.5°	427.3	430.6	528.4	694.8	900.3	923.1	3532.6	5065.6	5088.4	4018.6	2090.8
80°	319.7	319.7	401.2	587.1	877.4	851.3	2175.6	3513.0	3180.3	1412.4	456.7
82.5°	182.7	195.7	267.5	446.9	795.9	818.7	1226.4	2012.5	1343.9	384.9	212.0
85°	97.9	101.1	163.1	300.1	655.6	782.8	936.1	1001.4	534.9	205.5	97.9
87.5°	35.9	35.9	75.0	153.3	414.3	580.6	743.7	639.3	306.6	94.6	48.9
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°	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8	2439.8
2.5°	2436.6	2423.5	2413.7	2423.5	2387.7	2371.3	2390.9	2381.1	2361.6	2351.8	2345.2
5°	2387.7	2371.3	2355.0	2345.2	2306.1	2267.0	2247.4	2208.3	2175.6	2185.4	2165.8
7.5°	2335.5	2319.2	2270.2	2224.6	2146.3	2068.0	2032.1	1976.7	1957.1	1940.8	1931.0
10°	2270.2	2240.9	2165.8	2074.5	1960.4	1872.3	1781.0	1715.7	1647.2	1617.9	1627.6
12.5°	2188.7	2172.4	2054.9	1914.7	1754.9	1608.1	1500.4	1396.1	1304.7	1255.8	1242.8
15°	2152.8	2103.9	1934.3	1748.3	1546.1	1363.4	1203.6	1020.9	913.3	861.1	861.1
17.5°	2113.7	2022.3	1820.1	1565.7	1334.1	1099.2	874.2	707.8	623.0	593.7	593.7
20°	2051.7	1950.6	1686.4	1392.8	1112.3	828.5	626.3	534.9	508.8	489.3	492.5
22.5°	2006.0	1882.1	1562.4	1223.2	880.7	616.5	492.5	463.2	453.4	446.9	450.1
25°	1953.8	1800.5	1431.9	1040.5	691.5	486.0	427.3	414.3	420.8	424.0	424.0
27.5°	1911.4	1732.0	1298.2	844.8	521.9	411.0	384.9	381.6	394.7	401.2	404.5
30°	1882.1	1670.1	1167.7	665.4	417.5	365.3	352.3	352.3	368.6	375.1	378.4
32.5°	1852.7	1617.9	1027.5	508.8	355.5	326.2	322.9	326.2	336.0	336.0	339.2
35°	1862.5	1568.9	893.7	411.0	319.7	300.1	300.1	300.1	303.3	306.6	306.6
37.5°	1882.1	1555.9	750.2	345.8	293.6	280.5	280.5	277.3	280.5	277.3	280.5
40°	1901.6	1536.3	619.7	306.6	277.3	267.5	264.2	257.7	254.4	254.4	257.7
42.5°	1983.2	1562.4	508.8	280.5	264.2	257.7	247.9	241.4	238.1	238.1	238.1
45°	2087.6	1611.3	420.8	267.5	254.4	238.1	231.6	228.3	221.8	225.1	228.3
47.5°	2244.1	1686.4	368.6	257.7	244.6	225.1	218.5	212.0	212.0	218.5	218.5
50°	2449.6	1810.3	336.0	247.9	234.9	215.3	205.5	202.2	202.2	212.0	212.0
52.5°	2671.4	1953.8	322.9	244.6	225.1	205.5	195.7	192.4	192.4	205.5	205.5
55°	2893.2	2130.0	332.7	244.6	218.5	195.7	185.9	179.4	182.7	192.4	192.4
57.5°	3137.9	2319.2	381.6	244.6	212.0	192.4	179.4	169.6	172.9	176.1	176.1
60°	3405.3	2567.1	466.4	244.6	208.8	185.9	169.6	156.6	156.6	159.8	159.8
62.5°	3676.1	2811.7	587.1	247.9	212.0	182.7	156.6	143.5	140.3	143.5	143.5
65°	4031.6	3203.1	707.8	247.9	221.8	176.1	146.8	130.5	127.2	127.2	130.5
67.5°	4530.7	3483.6	548.0	238.1	228.3	176.1	137.0	120.7	114.2	114.2	114.2
70°	4266.5	2938.9	349.0	221.8	218.5	182.7	130.5	110.9	104.4	101.1	101.1
72.5°	3653.2	2351.8	280.5	208.8	202.2	179.4	123.9	104.4	94.6	91.3	91.3
75°	2929.1	1856.0	244.6	189.2	176.1	150.0	114.2	94.6	88.1	81.5	81.5
77.5°	1435.2	776.3	185.9	166.4	150.0	114.2	101.1	88.1	78.3	71.8	71.8
80°	358.8	270.7	137.0	130.5	110.9	88.1	81.5	75.0	68.5	62.0	62.0
82.5°	192.4	159.8	97.9	88.1	75.0	62.0	62.0	58.7	55.5	48.9	45.7
85°	97.9	94.6	65.2	58.7	48.9	39.1	42.4	42.4	39.1	29.4	29.4
87.5°	52.2	52.2	32.6	26.1	22.8	19.6	19.6	19.6	16.3	13.0	13.0
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)