

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: P675629

Luminaire Tested: **CCW-SA-2D-840-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675629  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-840-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SL3 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

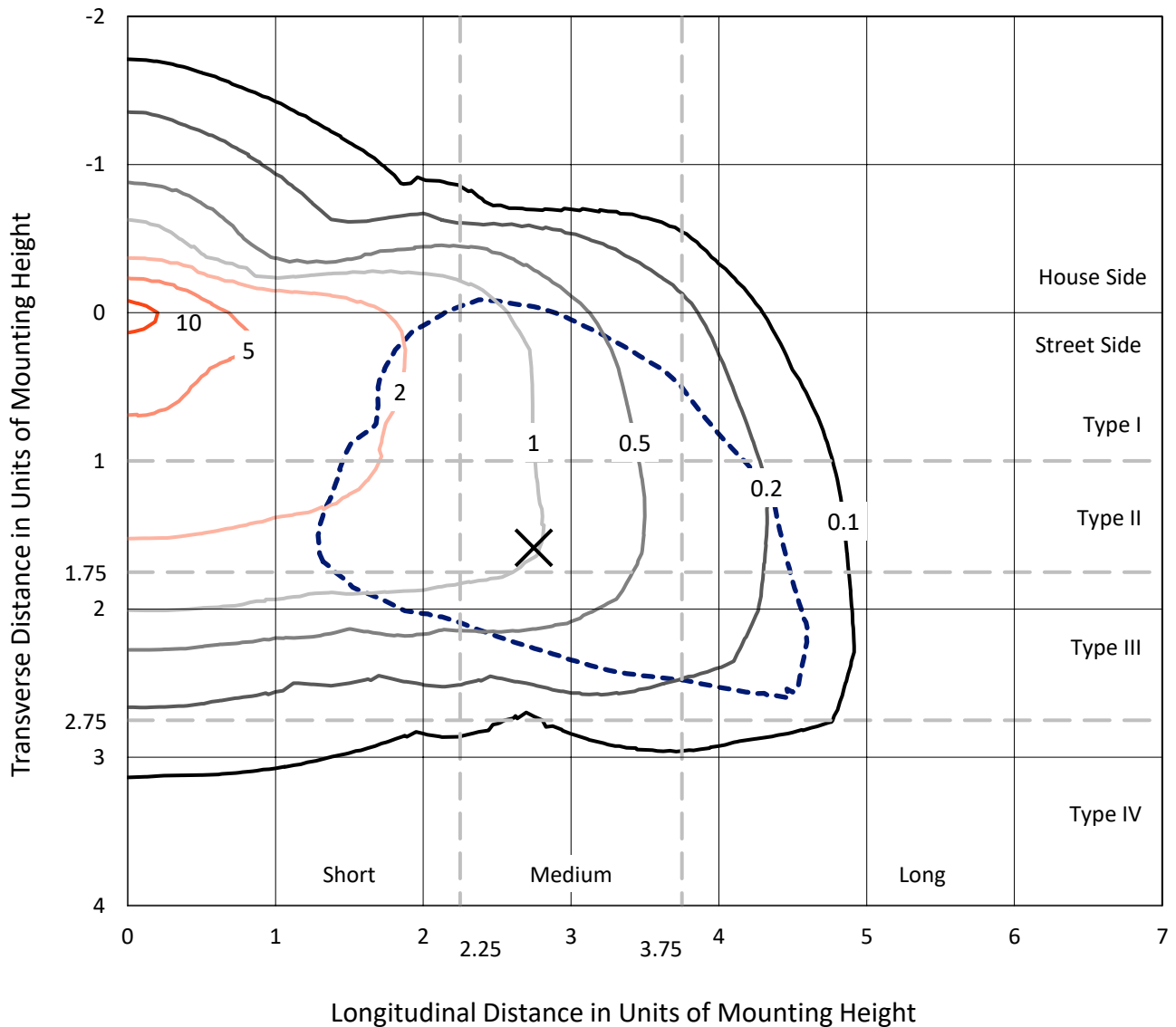
Lumens per Lamp: N/A  
Luminaire Lumens: 9401.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

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

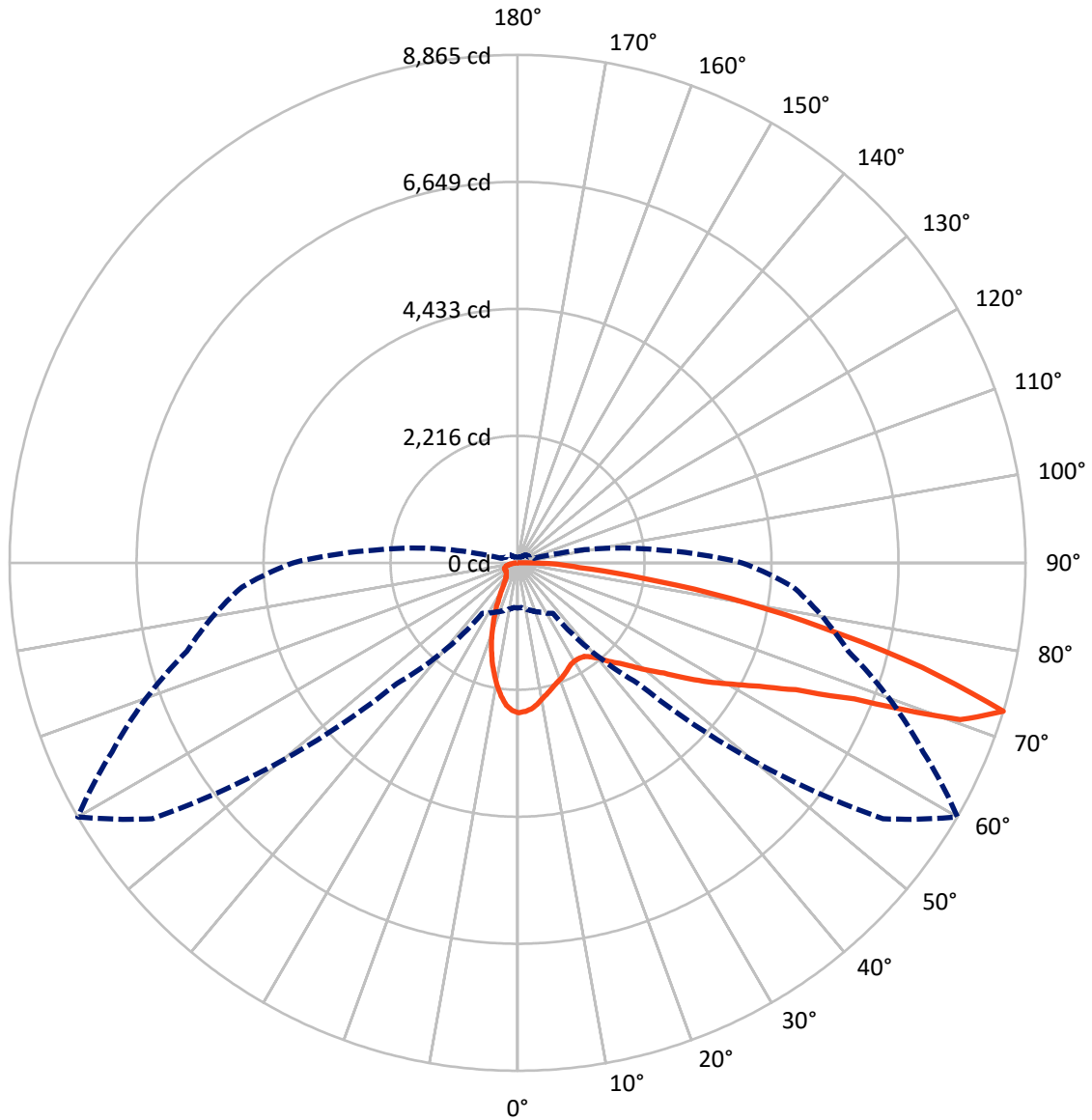
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.6 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
<b>House Side</b>	Lumens	1615.1	0.0	1615.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	7786.7	0.0	7786.7
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	9401.8	0.0	9401.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.9	2.4
10°-20°	514.6	5.5
20°-30°	658.5	7.0
30°-40°	842.4	9.0
40°-50°	1155.4	12.3
50°-60°	1671.2	17.8
60°-70°	2292.6	24.4
70°-80°	1720.4	18.3
80°-90°	319.8	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°	9401.8	100.0
0°-180°	9401.8	100.0

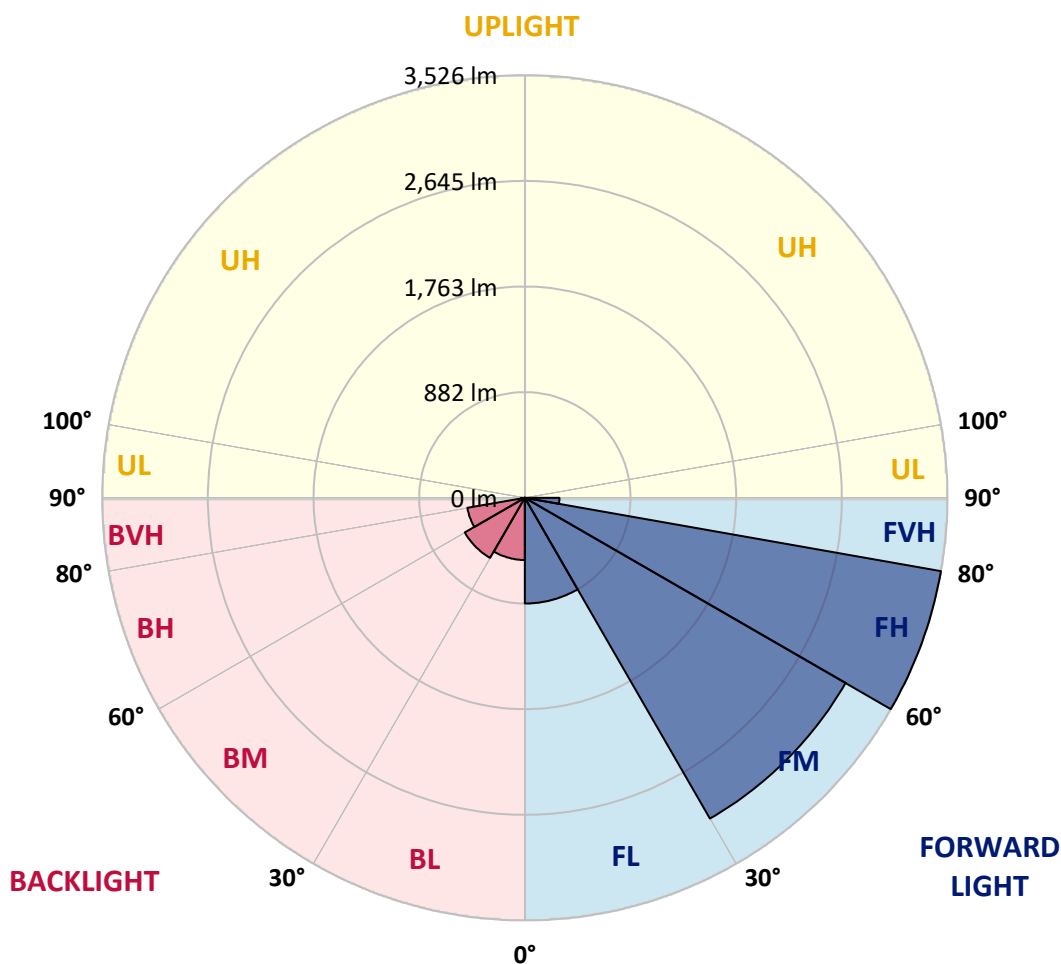


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.6	9.4			
FM (30°-60°)	3090.3	32.9			
FH (60°-80°)	3526.3	37.5			G2/5000
FVH (80°-90°)	288.6	3.1			G3/500
BL (0°-30°)	518.5	5.5	B2/1000		
BM (30°-60°)	578.8	6.2	B1/1000		
BH (60°-80°)	486.7	5.2	B1/500		G1/500
BVH (80°-90°)	31.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9
2.5°	2561.9	2586.4	2593.4	2593.4	2614.4	2589.9	2624.9	2596.9	2603.9	2614.4	2607.4
5°	2439.4	2481.4	2456.9	2502.4	2484.9	2516.4	2558.4	2558.4	2547.9	2568.9	2551.4
7.5°	2320.4	2306.4	2348.4	2348.4	2376.4	2418.4	2453.4	2488.4	2491.9	2498.9	2495.4
10°	2159.4	2176.9	2197.9	2225.9	2260.9	2302.9	2376.4	2404.4	2411.4	2453.4	2442.9
12.5°	2026.4	2050.9	2064.9	2120.9	2152.4	2211.9	2295.9	2334.4	2337.9	2397.4	2397.4
15°	1928.5	1942.4	1973.9	1994.9	2064.9	2148.9	2229.4	2264.4	2302.9	2365.9	2348.4
17.5°	1862.0	1879.5	1893.5	1921.5	1987.9	2057.9	2183.9	2204.9	2250.4	2341.4	2320.4
20°	1823.5	1827.0	1848.0	1865.5	1925.0	1991.4	2103.4	2159.4	2218.9	2299.4	2278.4
22.5°	1830.5	1816.5	1813.0	1837.5	1848.0	1911.0	2047.4	2106.9	2190.9	2285.4	2250.4
25°	1844.5	1848.0	1841.0	1820.0	1823.5	1879.5	1970.4	2047.4	2141.9	2281.9	2211.9
27.5°	1879.5	1897.0	1869.0	1848.0	1827.0	1848.0	1942.4	1998.4	2103.4	2299.4	2208.4
30°	1914.5	1932.0	1925.0	1893.5	1851.5	1844.5	1911.0	1980.9	2082.4	2313.4	2208.4
32.5°	1966.9	1991.4	1966.9	1977.4	1928.5	1897.0	1921.5	1984.4	2103.4	2362.4	2211.9
35°	2026.4	2047.4	2054.4	2029.9	2019.4	1959.9	1973.9	2005.4	2124.4	2418.4	2246.9
37.5°	2092.9	2117.4	2138.4	2141.9	2106.9	2071.9	2064.9	2082.4	2176.9	2516.4	2285.4
40°	2138.4	2152.4	2194.4	2229.4	2239.9	2190.9	2187.4	2187.4	2271.4	2603.9	2355.4
42.5°	2215.4	2208.4	2267.9	2330.9	2348.4	2320.4	2327.4	2355.4	2404.4	2729.9	2467.4
45°	2253.9	2246.9	2316.9	2421.9	2502.4	2488.4	2495.4	2505.9	2551.4	2929.4	2656.4
47.5°	2306.4	2313.4	2414.9	2533.9	2617.9	2666.9	2705.4	2701.9	2736.9	3132.4	2866.4
50°	2358.9	2372.9	2495.4	2621.4	2768.4	2852.4	2908.4	2946.9	2981.9	3345.9	3107.9
52.5°	2460.4	2474.4	2610.9	2747.4	2936.4	3058.9	3198.9	3195.4	3198.9	3559.4	3349.4
55°	2607.4	2610.9	2691.4	2848.9	3104.4	3328.4	3520.9	3541.9	3482.4	3825.4	3625.9
57.5°	2775.4	2789.4	2859.4	2978.4	3237.4	3587.4	3881.4	3923.4	3762.4	4042.4	3877.9
60°	2932.9	2943.4	3051.9	3188.4	3468.4	3912.9	4245.4	4294.4	4119.4	4308.4	4140.4
62.5°	2754.4	2806.9	2999.4	3310.9	3874.4	4406.4	4707.4	4738.9	4465.9	4577.9	4420.4
65°	2204.9	2239.9	2516.4	3020.4	3902.4	5302.4	5421.4	5337.4	4941.9	4924.4	4843.9
67.5°	1228.5	1256.5	1445.5	1973.9	3286.4	5638.4	6957.8	6341.8	5680.4	5445.9	5417.9
70°	969.5	976.5	1001.0	1109.5	1823.5	4969.9	8168.8	8196.8	6887.8	6163.3	5540.4
72.5°	787.5	784.0	857.5	952.0	1078.0	2981.9	7787.3	8865.3	7811.8	5974.3	4826.4
75°	602.0	612.5	707.0	843.5	987.0	1403.5	5809.8	7293.8	7318.3	5568.4	4070.4
77.5°	458.5	462.0	567.0	745.5	966.0	990.5	3790.4	5435.4	5459.9	4311.9	2243.4
80°	343.0	343.0	430.5	630.0	941.5	913.5	2334.4	3769.4	3412.4	1515.5	490.0
82.5°	196.0	210.0	287.0	479.5	854.0	878.5	1316.0	2159.4	1442.0	413.0	227.5
85°	105.0	108.5	175.0	322.0	703.5	840.0	1004.5	1074.5	574.0	220.5	105.0
87.5°	38.5	38.5	80.5	164.5	444.5	623.0	798.0	686.0	329.0	101.5	52.5
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°	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9	2617.9
2.5°	2614.4	2600.4	2589.9	2600.4	2561.9	2544.4	2565.4	2554.9	2533.9	2523.4	2516.4
5°	2561.9	2544.4	2526.9	2516.4	2474.4	2432.4	2411.4	2369.4	2334.4	2344.9	2323.9
7.5°	2505.9	2488.4	2435.9	2386.9	2302.9	2218.9	2180.4	2120.9	2099.9	2082.4	2071.9
10°	2435.9	2404.4	2323.9	2225.9	2103.4	2008.9	1911.0	1841.0	1767.5	1736.0	1746.5
12.5°	2348.4	2330.9	2204.9	2054.4	1883.0	1725.5	1610.0	1498.0	1400.0	1347.5	1333.5
15°	2309.9	2257.4	2075.4	1876.0	1659.0	1463.0	1291.5	1095.5	980.0	924.0	924.0
17.5°	2267.9	2169.9	1952.9	1680.0	1431.5	1179.5	938.0	759.5	668.5	637.0	637.0
20°	2201.4	2092.9	1809.5	1494.5	1193.5	889.0	672.0	574.0	546.0	525.0	528.5
22.5°	2152.4	2019.4	1676.5	1312.5	945.0	661.5	528.5	497.0	486.5	479.5	483.0
25°	2096.4	1932.0	1536.5	1116.5	742.0	521.5	458.5	444.5	451.5	455.0	455.0
27.5°	2050.9	1858.5	1393.0	906.5	560.0	441.0	413.0	409.5	423.5	430.5	434.0
30°	2019.4	1792.0	1253.0	714.0	448.0	392.0	378.0	378.0	395.5	402.5	406.0
32.5°	1987.9	1736.0	1102.5	546.0	381.5	350.0	346.5	350.0	360.5	360.5	364.0
35°	1998.4	1683.5	959.0	441.0	343.0	322.0	322.0	322.0	325.5	329.0	329.0
37.5°	2019.4	1669.5	805.0	371.0	315.0	301.0	301.0	297.5	301.0	297.5	301.0
40°	2040.4	1648.5	665.0	329.0	297.5	287.0	283.5	276.5	273.0	273.0	276.5
42.5°	2127.9	1676.5	546.0	301.0	283.5	276.5	266.0	259.0	255.5	255.5	255.5
45°	2239.9	1729.0	451.5	287.0	273.0	255.5	248.5	245.0	238.0	241.5	245.0
47.5°	2407.9	1809.5	395.5	276.5	262.5	241.5	234.5	227.5	227.5	234.5	234.5
50°	2628.4	1942.4	360.5	266.0	252.0	231.0	220.5	217.0	217.0	227.5	227.5
52.5°	2866.4	2096.4	346.5	262.5	241.5	220.5	210.0	206.5	206.5	220.5	220.5
55°	3104.4	2285.4	357.0	262.5	234.5	210.0	199.5	192.5	196.0	206.5	206.5
57.5°	3366.9	2488.4	409.5	262.5	227.5	206.5	192.5	182.0	185.5	189.0	189.0
60°	3653.9	2754.4	500.5	262.5	224.0	199.5	182.0	168.0	168.0	171.5	171.5
62.5°	3944.4	3016.9	630.0	266.0	227.5	196.0	168.0	154.0	150.5	154.0	154.0
65°	4325.9	3436.9	759.5	266.0	238.0	189.0	157.5	140.0	136.5	136.5	140.0
67.5°	4861.4	3737.9	588.0	255.5	245.0	189.0	147.0	129.5	122.5	122.5	122.5
70°	4577.9	3153.4	374.5	238.0	234.5	196.0	140.0	119.0	112.0	108.5	108.5
72.5°	3919.9	2523.4	301.0	224.0	217.0	192.5	133.0	112.0	101.5	98.0	98.0
75°	3142.9	1991.4	262.5	203.0	189.0	161.0	122.5	101.5	94.5	87.5	87.5
77.5°	1540.0	833.0	199.5	178.5	161.0	122.5	108.5	94.5	84.0	77.0	77.0
80°	385.0	290.5	147.0	140.0	119.0	94.5	87.5	80.5	73.5	66.5	66.5
82.5°	206.5	171.5	105.0	94.5	80.5	66.5	66.5	63.0	59.5	52.5	49.0
85°	105.0	101.5	70.0	63.0	52.5	42.0	45.5	45.5	42.0	31.5	31.5
87.5°	56.0	56.0	35.0	28.0	24.5	21.0	21.0	21.0	17.5	14.0	14.0
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)