

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: P675486

Luminaire Tested: **CCW-SA-2E-840-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675486  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-840-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SL2 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

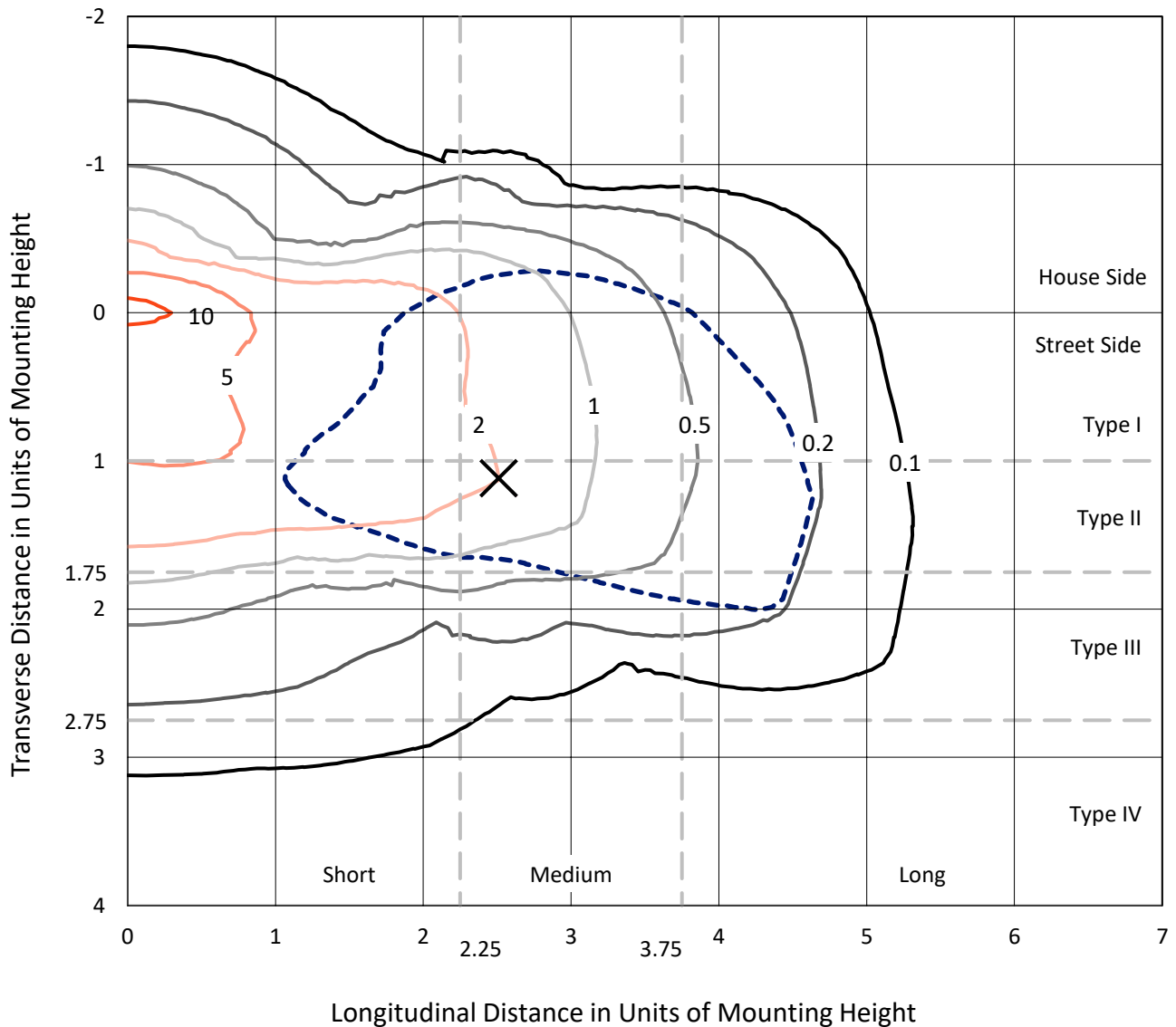
Lumens per Lamp: N/A  
Luminaire Lumens: 11537.4 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
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

REPORT NUMBER: P675486  
 CATALOG NUMBER: CCW-SA-2E-840-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

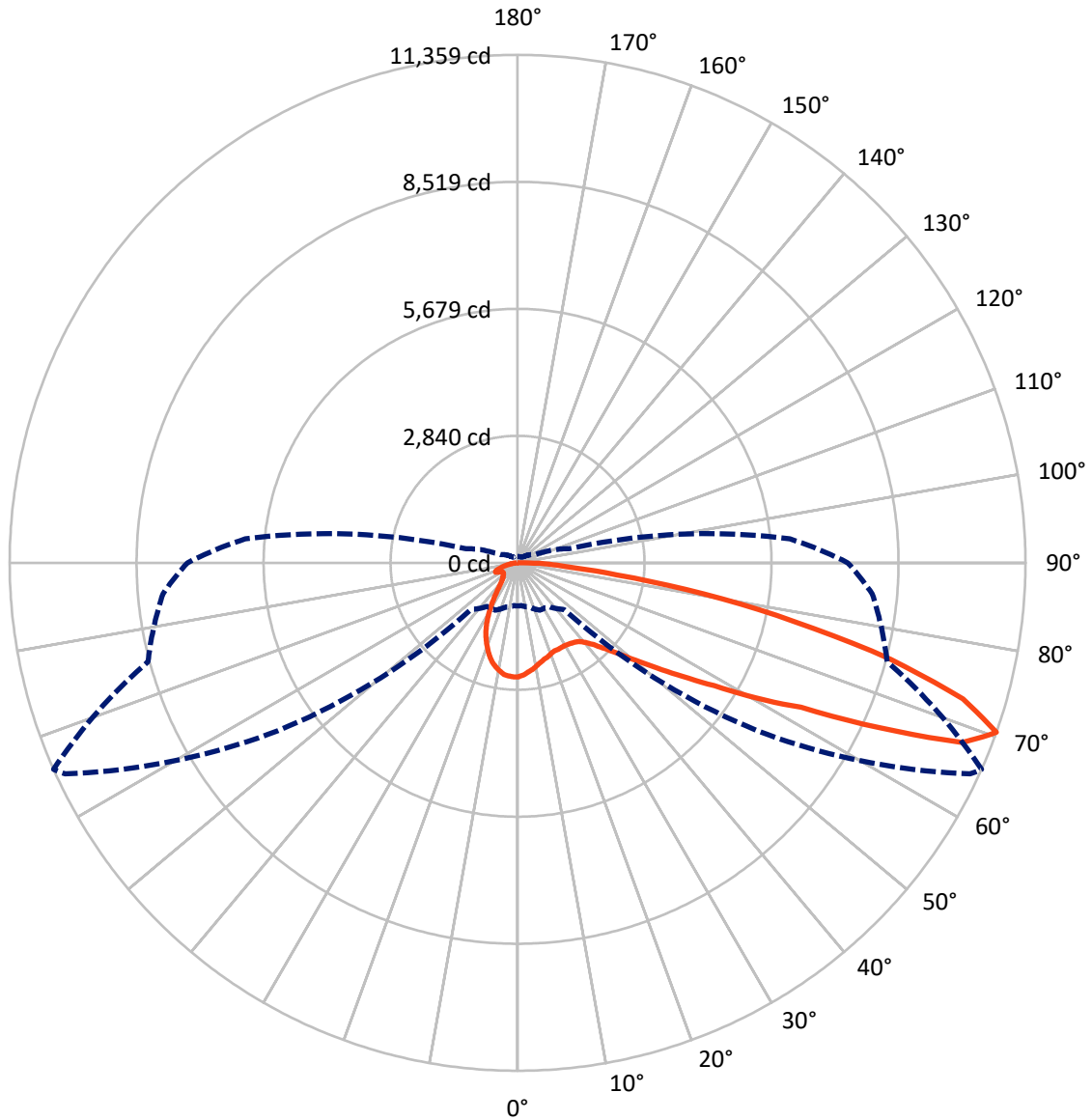
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P675486  
CATALOG NUMBER: CCW-SA-2E-840-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: CCW-SA-2E-840-U-SL2

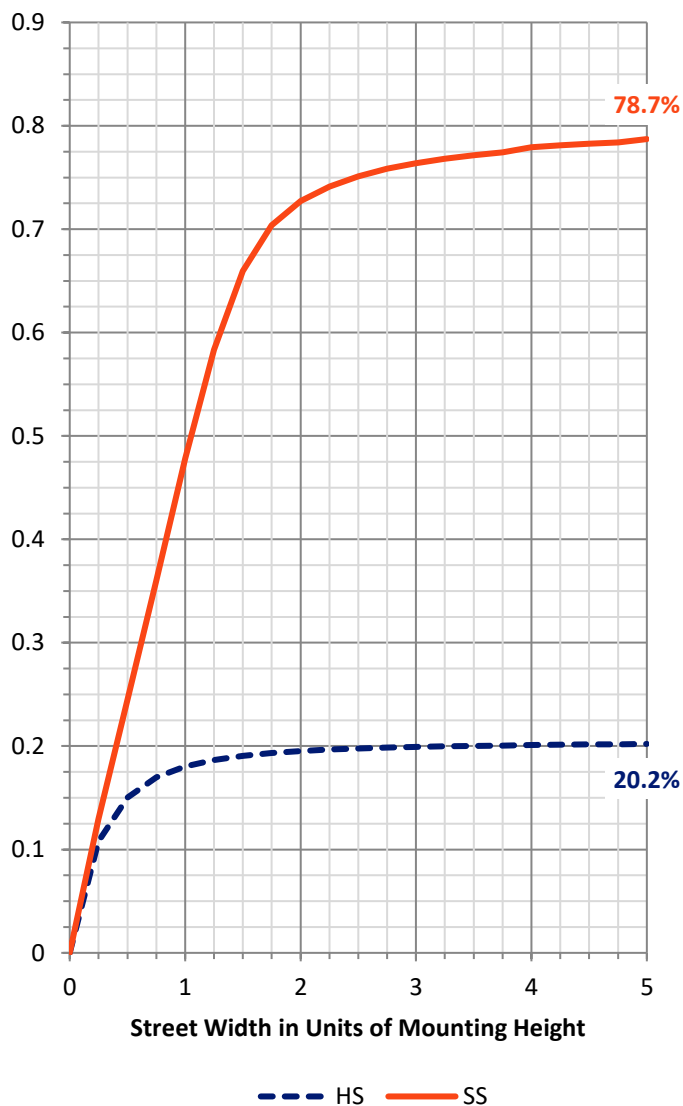
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2361.6	0.0	2361.6
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	9175.9	0.0	9175.9
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	11537.4	0.0	11537.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	2.0
10°-20°	554.8	4.8
20°-30°	762.0	6.6
30°-40°	1021.6	8.9
40°-50°	1482.3	12.8
50°-60°	2253.1	19.5
60°-70°	2782.8	24.1
70°-80°	2069.4	17.9
80°-90°	386.0	3.3
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°	11537.4	100.0
0°-180°	11537.4	100.0

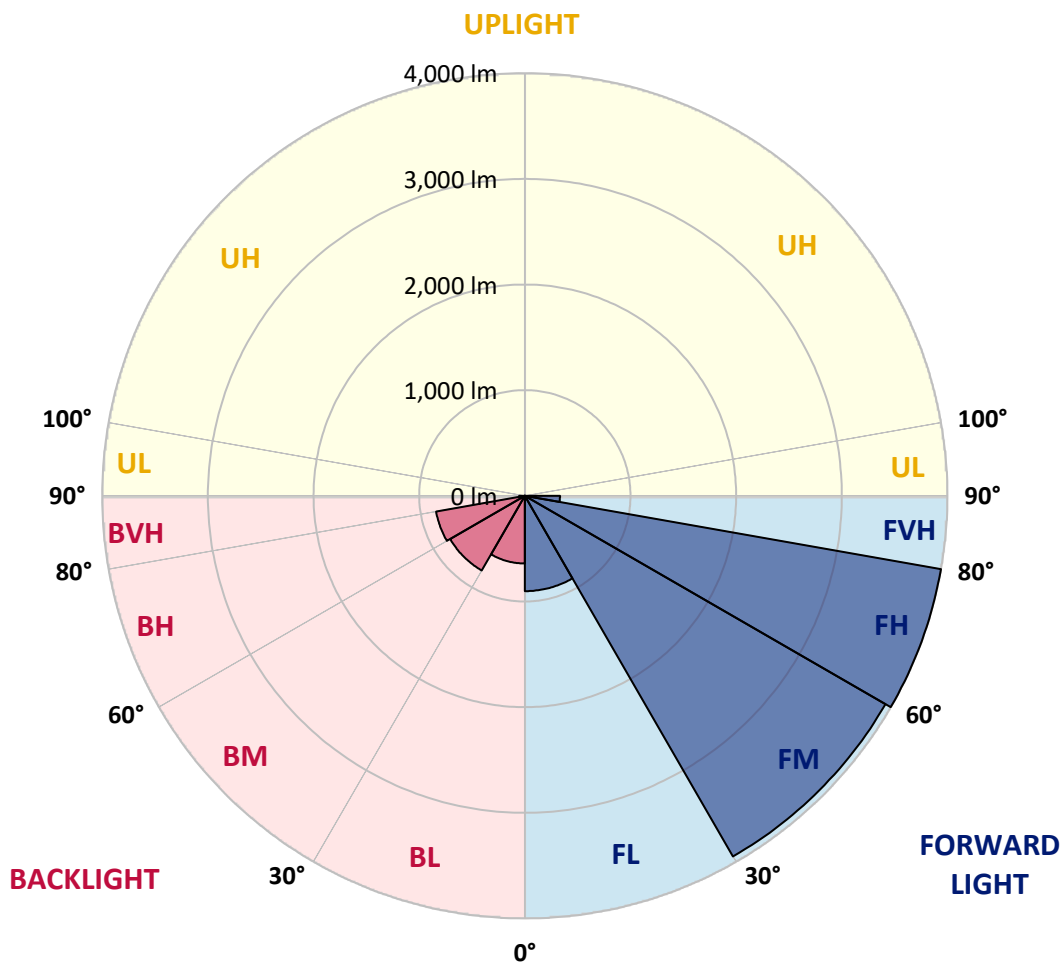


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 CATALOG NUMBER: CCW-SA-2E-840-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.2	7.8			
FM (30°-60°)	3941.4	34.2			
FH (60°-80°)	3999.7	34.7			G2/5000
FVH (80°-90°)	332.7	2.9			G3/500
BL (0°-30°)	640.0	5.5	B2/1000		
BM (30°-60°)	815.8	7.1	B1/1000		
BH (60°-80°)	852.5	7.4	B2/1000		G2/1000
BVH (80°-90°)	53.3	0.5			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





REPORT NUMBER: P675486

CATALOG NUMBER: CCW-SA-2E-840-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0
2.5°	2424.5	2437.4	2441.7	2450.3	2471.7	2488.9	2514.7	2527.5	2514.7	2531.8	2531.8
5°	2257.2	2240.0	2282.9	2300.1	2325.8	2360.2	2420.2	2467.4	2454.6	2506.1	2549.0
7.5°	2115.6	2115.6	2128.4	2167.1	2197.1	2248.6	2313.0	2385.9	2407.4	2476.0	2540.4
10°	1986.8	2004.0	2004.0	2064.1	2081.2	2141.3	2248.6	2338.7	2343.0	2458.9	2549.0
12.5°	1918.2	1909.6	1952.5	1969.7	2021.2	2081.2	2167.1	2278.6	2282.9	2407.4	2531.8
15°	1862.4	1871.0	1892.4	1935.3	1982.5	2029.7	2111.3	2214.3	2235.7	2381.6	2523.2
17.5°	1866.7	1871.0	1871.0	1901.0	1939.6	1995.4	2072.7	2192.8	2205.7	2347.3	2510.4
20°	1892.4	1875.3	1888.1	1901.0	1926.8	1978.2	2042.6	2145.6	2158.5	2343.0	2540.4
22.5°	1948.2	1935.3	1931.0	1926.8	1922.5	1952.5	2034.0	2119.9	2132.7	2321.5	2553.3
25°	2038.3	2034.0	2004.0	1974.0	1952.5	1952.5	2016.9	2141.3	2137.0	2321.5	2561.9
27.5°	2145.6	2145.6	2141.3	2085.5	2021.2	1986.8	2029.7	2132.7	2128.4	2321.5	2583.3
30°	2291.5	2291.5	2278.6	2227.1	2111.3	2012.6	2038.3	2124.2	2137.0	2304.4	2566.1
32.5°	2450.3	2446.0	2458.9	2411.7	2291.5	2132.7	2089.8	2141.3	2154.2	2321.5	2570.4
35°	2566.1	2591.9	2634.8	2591.9	2471.7	2257.2	2162.8	2175.6	2184.2	2325.8	2587.6
37.5°	2699.2	2729.2	2789.3	2823.6	2694.9	2446.0	2278.6	2231.4	2231.4	2381.6	2591.9
40°	2892.3	2862.2	2965.2	3025.3	2973.8	2677.7	2458.9	2334.4	2338.7	2454.6	2647.7
42.5°	3033.9	3063.9	3171.2	3278.5	3214.1	2960.9	2656.3	2501.8	2501.8	2561.9	2733.5
45°	3192.7	3227.0	3377.2	3505.9	3553.1	3299.9	2926.6	2742.1	2733.5	2772.1	2888.0
47.5°	3368.6	3415.8	3587.5	3737.6	3862.1	3651.8	3274.2	3033.9	3029.6	3059.6	3145.5
50°	3570.3	3587.5	3729.1	4003.7	4252.6	4119.6	3699.0	3445.8	3424.4	3437.3	3553.1
52.5°	3630.4	3617.5	3780.6	4076.7	4531.5	4690.3	4278.3	3913.6	3905.0	3875.0	4025.2
55°	3411.5	3454.4	3613.2	3990.8	4759.0	5364.0	4913.4	4553.0	4475.7	4394.2	4574.4
57.5°	2973.8	2978.1	3158.3	3604.6	4583.0	5921.9	5990.5	5179.5	5183.8	4964.9	5170.9
60°	2313.0	2300.1	2441.7	2845.1	4080.9	6093.5	7166.3	6179.3	6136.4	5535.7	5724.5
62.5°	1669.3	1643.5	1673.6	1909.6	3051.1	5831.8	8320.7	7299.4	7119.1	6119.3	6265.2
65°	1373.2	1386.1	1398.9	1411.8	1712.2	4810.4	8676.8	9127.4	8887.1	6801.6	6861.6
67.5°	1137.2	1145.8	1201.5	1278.8	1270.2	2840.8	8264.9	10818.1	10728.0	7646.9	7376.6
70°	965.5	961.2	1025.6	1167.2	1188.7	1476.2	6544.1	11165.7	11358.8	8556.7	7960.2
72.5°	772.4	781.0	836.8	1025.6	1167.2	1244.5	3767.7	10419.1	10414.8	9256.1	7646.9
75°	553.6	553.6	630.8	849.7	1128.6	1231.6	2085.5	8458.0	8616.8	8698.3	6634.2
77.5°	364.8	381.9	442.0	635.1	1059.9	1205.8	1321.7	6149.3	6346.7	6505.5	5076.5
80°	248.9	257.5	296.1	442.0	896.9	1214.4	1081.4	4136.7	4214.0	3591.7	2059.8
82.5°	150.2	154.5	197.4	309.0	643.7	1154.3	1017.0	2282.9	2235.7	1085.7	592.2
85°	81.5	85.8	124.4	206.0	424.8	1008.4	999.9	1120.0	1042.8	399.1	248.9
87.5°	30.0	30.0	55.8	103.0	244.6	690.9	871.1	665.1	622.2	201.7	115.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675486  
 CATALOG NUMBER: CCW-SA-2E-840-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0	2549.0
2.5°	2553.3	2553.3	2553.3	2553.3	2549.0	2531.8	2544.7	2540.4	2514.7	2518.9	2501.8
5°	2544.7	2566.1	2553.3	2536.1	2514.7	2463.2	2446.0	2433.1	2398.8	2385.9	2398.8
7.5°	2566.1	2549.0	2540.4	2510.4	2424.5	2377.3	2317.3	2244.3	2192.8	2179.9	2192.8
10°	2561.9	2561.9	2523.2	2437.4	2355.9	2218.6	2141.3	2012.6	1939.6	1918.2	1922.5
12.5°	2544.7	2557.6	2497.5	2360.2	2205.7	2038.3	1896.7	1759.4	1630.7	1579.2	1570.6
15°	2561.9	2549.0	2441.7	2265.8	2051.2	1819.5	1613.5	1411.8	1291.7	1214.4	1197.2
17.5°	2536.1	2523.2	2368.7	2137.0	1849.5	1553.4	1295.9	1077.1	956.9	926.9	926.9
20°	2566.1	2484.6	2282.9	1982.5	1639.2	1261.6	969.8	806.7	776.7	776.7	785.3
22.5°	2561.9	2476.0	2210.0	1832.3	1386.1	952.6	720.9	673.7	678.0	712.3	708.1
25°	2536.1	2458.9	2107.0	1665.0	1120.0	716.6	596.5	583.6	613.6	652.3	648.0
27.5°	2531.8	2411.7	2012.6	1467.6	854.0	566.4	519.2	519.2	549.3	583.6	579.3
30°	2506.1	2373.0	1896.7	1244.5	643.7	493.5	476.3	476.3	489.2	506.4	506.4
32.5°	2501.8	2321.5	1768.0	1012.7	514.9	446.3	437.7	442.0	442.0	450.6	446.3
35°	2467.4	2252.9	1635.0	785.3	446.3	420.5	412.0	407.7	407.7	403.4	403.4
37.5°	2454.6	2210.0	1497.6	609.4	416.2	399.1	390.5	377.6	373.3	373.3	369.0
40°	2467.4	2167.1	1364.6	493.5	390.5	381.9	369.0	351.9	347.6	347.6	347.6
42.5°	2514.7	2162.8	1227.3	429.1	377.6	364.8	347.6	330.4	326.1	330.4	326.1
45°	2621.9	2197.1	1094.3	399.1	360.5	347.6	326.1	313.3	309.0	313.3	313.3
47.5°	2797.9	2291.5	974.1	381.9	347.6	330.4	309.0	296.1	296.1	296.1	296.1
50°	3089.7	2471.7	858.2	369.0	339.0	317.5	296.1	278.9	274.6	274.6	278.9
52.5°	3527.4	2780.7	763.8	360.5	326.1	300.4	278.9	266.1	257.5	253.2	257.5
55°	4055.2	3231.3	733.8	351.9	309.0	287.5	266.1	248.9	240.3	240.3	236.0
57.5°	4621.6	3729.1	785.3	343.3	296.1	270.3	248.9	231.7	223.1	218.9	218.9
60°	5235.3	4317.0	974.1	339.0	283.2	253.2	231.7	218.9	206.0	201.7	201.7
62.5°	5793.1	4849.1	1313.1	334.7	274.6	236.0	214.6	197.4	188.8	184.5	184.5
65°	6428.2	5441.3	1643.5	351.9	270.3	223.1	197.4	180.2	171.6	167.4	167.4
67.5°	6981.8	5956.2	1836.6	394.8	283.2	206.0	175.9	163.1	158.8	154.5	154.5
70°	7385.2	6115.0	1231.6	433.4	304.7	193.1	158.8	150.2	141.6	141.6	141.6
72.5°	6844.5	5458.4	729.5	407.7	287.5	180.2	141.6	133.0	128.7	128.7	124.4
75°	5853.2	4647.4	562.1	330.4	231.7	154.5	124.4	115.9	111.6	111.6	107.3
77.5°	4321.3	3330.0	416.2	261.8	180.2	124.4	107.3	103.0	98.7	94.4	94.4
80°	1690.7	1459.0	283.2	193.1	133.0	98.7	90.1	85.8	81.5	77.2	77.2
82.5°	523.5	442.0	163.1	128.7	94.4	77.2	73.0	68.7	64.4	60.1	60.1
85°	227.4	218.9	107.3	81.5	64.4	51.5	51.5	47.2	42.9	38.6	38.6
87.5°	111.6	107.3	60.1	38.6	34.3	25.7	25.7	21.5	17.2	17.2	17.2
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)