

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: P672039

Luminaire Tested: **CCP-SA-2B-840-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672039  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-840-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

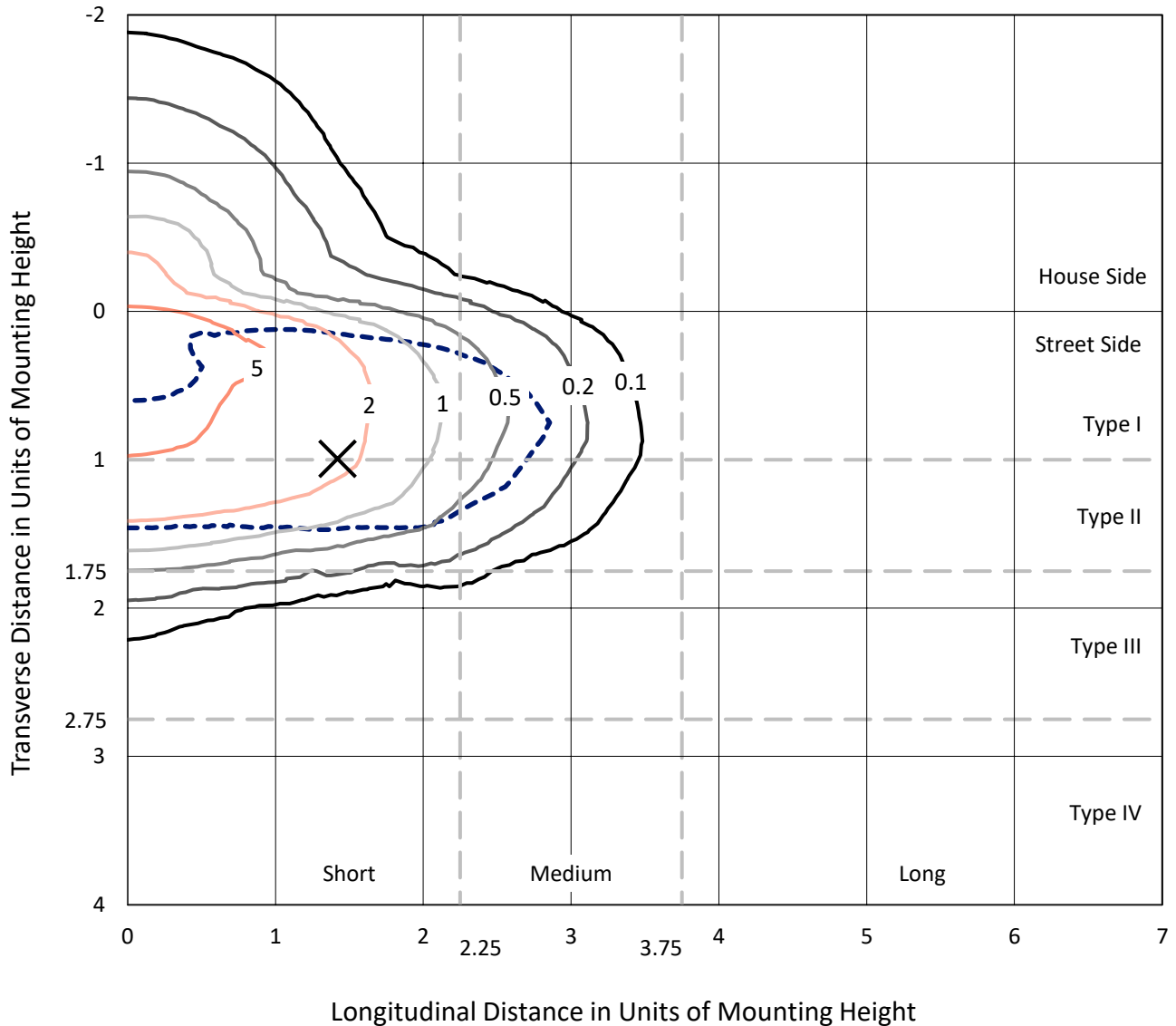
Lumens per Lamp: N/A  
Luminaire Lumens: 5942.1 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

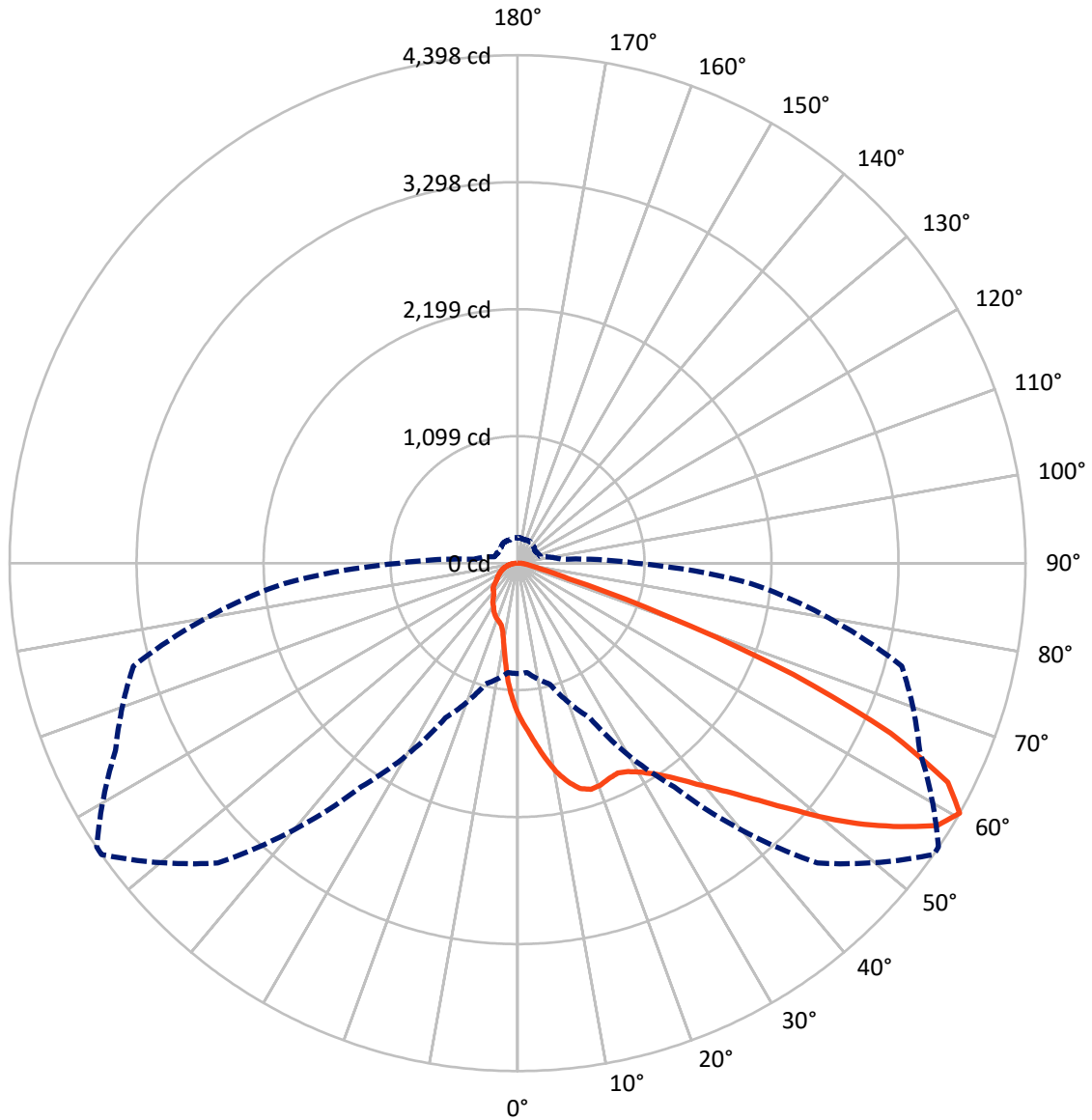
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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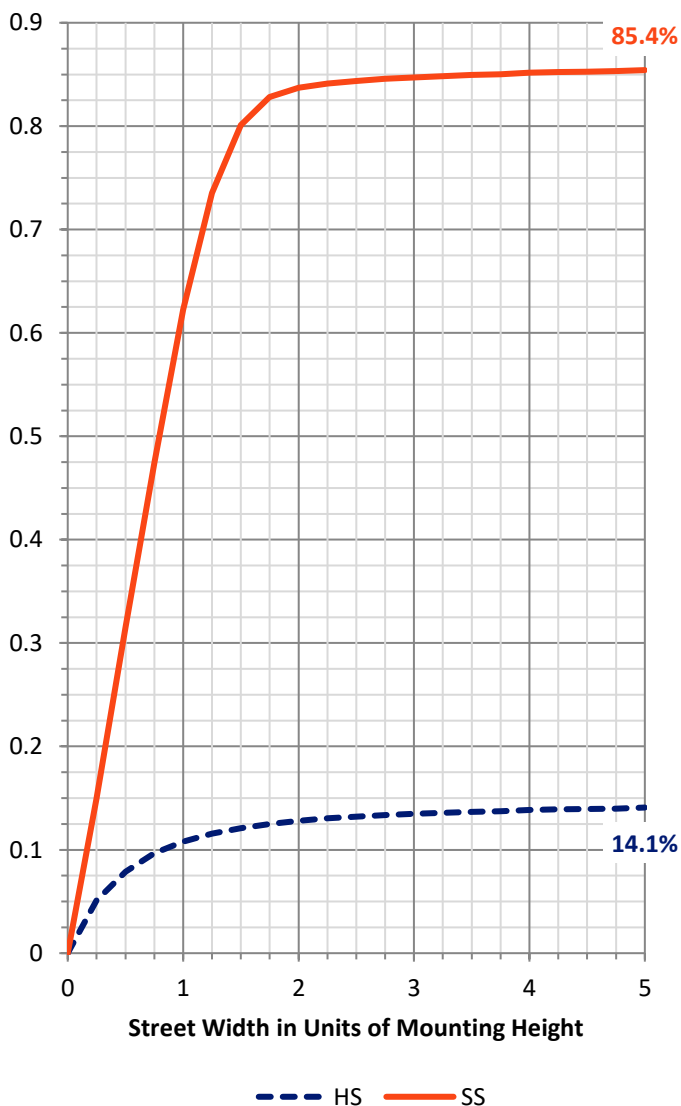
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	854.2	0.0	854.2
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	5087.9	0.0	5087.9
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	5942.1	0.0	5942.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	2.1
10°-20°	349.4	5.9
20°-30°	568.9	9.6
30°-40°	850.3	14.3
40°-50°	1249.7	21.0
50°-60°	1464.7	24.6
60°-70°	965.8	16.3
70°-80°	307.5	5.2
80°-90°	62.5	1.1
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°	5942.1	100.0
0°-180°	5942.1	100.0



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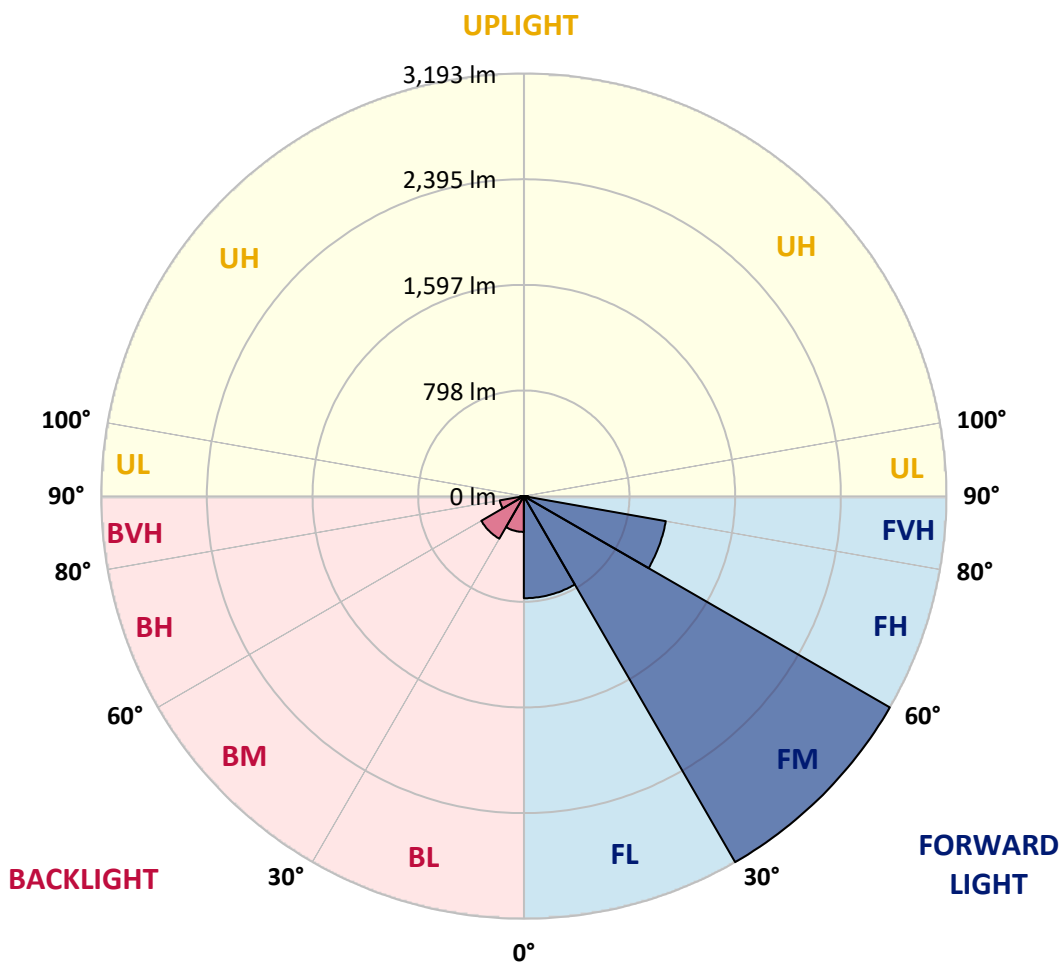
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.2	13.0			
FM (30°-60°)	3193.4	53.7			
FH (60°-80°)	1089.0	18.3			G1/1800
FVH (80°-90°)	34.3	0.6			G1/100
BL (0°-30°)	270.4	4.6	B1/500		
BM (30°-60°)	371.3	6.2	B1/1000		
BH (60°-80°)	184.3	3.1	B1/500		G1/500
BVH (80°-90°)	28.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8
2.5°	1533.6	1528.0	1528.0	1513.8	1492.7	1463.4	1428.5	1419.9	1406.5	1372.5	1328.6
5°	1767.4	1761.4	1753.2	1728.2	1689.1	1630.5	1556.8	1543.5	1495.7	1425.5	1346.3
7.5°	1922.0	1918.6	1916.0	1894.5	1855.7	1798.0	1699.4	1684.3	1603.4	1487.1	1363.0
10°	1906.1	1916.4	1934.5	1949.6	1957.4	1927.6	1835.1	1817.4	1717.1	1558.6	1388.0
12.5°	1756.7	1771.3	1804.9	1866.5	1937.6	1994.8	1942.3	1932.4	1838.5	1634.4	1419.5
15°	1645.6	1651.6	1668.0	1713.6	1819.5	1972.4	2025.4	2016.4	1951.8	1731.7	1455.6
17.5°	1611.1	1613.7	1617.6	1632.6	1705.0	1885.0	2059.4	2068.0	2061.6	1832.9	1496.6
20°	1628.3	1630.1	1630.5	1633.1	1667.5	1811.8	2050.4	2065.0	2158.1	1934.1	1537.0
22.5°	1694.7	1692.5	1689.5	1679.6	1699.0	1798.9	2026.3	2049.5	2232.6	2026.3	1574.5
25°	1810.5	1807.5	1786.4	1765.7	1773.9	1845.4	2013.3	2038.3	2290.7	2113.3	1602.1
27.5°	1948.3	1945.3	1923.8	1884.6	1876.0	1922.9	2043.5	2059.0	2333.3	2190.3	1614.1
30°	2091.3	2091.3	2064.6	2019.4	1991.8	2011.6	2099.0	2111.5	2365.6	2264.9	1621.9
32.5°	2247.2	2251.5	2210.2	2158.5	2127.9	2116.3	2177.0	2187.8	2412.6	2352.7	1638.2
35°	2447.5	2438.0	2387.6	2319.5	2270.5	2244.2	2273.5	2286.0	2481.5	2462.1	1664.5
37.5°	2672.7	2655.9	2593.9	2512.5	2426.8	2382.9	2402.2	2405.3	2583.5	2604.6	1712.3
40°	2858.7	2855.7	2803.2	2726.1	2618.0	2559.0	2549.5	2551.2	2725.2	2773.5	1784.7
42.5°	3015.5	3004.3	2994.8	2967.7	2853.1	2756.2	2717.5	2717.9	2879.0	2947.9	1857.4
45°	3084.8	3082.7	3110.7	3180.4	3098.2	2984.1	2928.9	2936.7	3055.1	3127.0	1927.6
47.5°	3055.1	3056.8	3131.8	3314.8	3363.5	3276.1	3178.3	3173.6	3225.7	3264.4	1989.7
50°	2789.8	2817.8	3020.7	3327.3	3537.5	3581.0	3470.7	3453.1	3375.1	3373.8	2027.6
52.5°	2589.6	2588.3	2712.7	3200.3	3599.0	3856.2	3757.1	3717.5	3498.7	3435.4	2030.6
55°	2319.1	2317.4	2410.0	2828.6	3476.7	4048.2	4027.1	3977.6	3612.0	3455.6	2009.9
57.5°	1756.2	1789.0	1881.1	2264.4	3089.1	4017.7	4285.1	4243.7	3722.6	3446.6	2006.0
60°	955.6	951.8	1085.3	1475.9	2365.2	3670.5	4397.5	4395.3	3840.2	3443.1	2029.7
62.5°	440.6	436.3	463.0	657.2	1356.2	2940.6	4180.4	4211.4	3949.2	3411.7	2027.6
65°	329.5	318.3	282.1	305.8	518.9	1755.4	3550.8	3633.5	3781.2	3282.5	1933.7
67.5°	293.7	282.9	240.7	225.7	260.6	619.3	2575.8	2652.0	3161.9	3040.5	1781.7
70°	269.2	259.7	217.5	193.8	195.5	274.3	1348.4	1498.3	2317.4	2537.5	1518.5
72.5°	245.5	237.3	199.0	170.5	164.5	181.3	459.5	554.3	1441.4	1849.3	1132.2
75°	220.5	212.7	179.2	152.9	141.3	134.4	218.8	235.6	762.3	1021.1	607.7
77.5°	191.6	187.3	159.8	134.8	124.9	101.6	145.6	152.9	326.4	400.9	289.4
80°	166.7	163.2	142.5	122.3	112.0	78.4	100.3	105.5	161.1	200.3	161.9
82.5°	108.5	117.1	118.0	105.1	98.6	62.9	66.3	70.2	106.8	118.0	70.6
85°	44.8	54.3	81.4	72.4	68.5	53.4	43.9	44.8	65.5	68.9	25.4
87.5°	20.2	22.4	40.1	40.5	35.3	20.2	22.0	24.1	33.6	33.2	11.2
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°	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8	1317.8
2.5°	1316.5	1296.7	1261.4	1216.2	1183.9	1160.2	1134.4	1115.4	1094.3	1075.8	1078.8
5°	1313.5	1275.2	1195.9	1112.0	1030.1	963.0	907.0	865.6	823.0	806.2	804.0
7.5°	1316.1	1251.1	1121.0	983.6	859.2	773.5	708.4	669.2	644.7	630.5	631.4
10°	1315.2	1228.2	1040.1	850.6	714.5	636.1	596.5	583.5	581.4	583.1	585.7
12.5°	1316.5	1197.2	949.2	730.8	610.7	570.6	572.4	584.0	591.3	596.0	599.1
15°	1322.1	1171.8	856.2	636.5	556.4	557.7	576.2	594.3	605.1	610.2	612.8
17.5°	1330.3	1140.0	773.5	565.0	533.6	553.4	577.5	596.9	605.1	608.1	610.2
20°	1331.2	1103.4	689.9	515.9	518.5	544.4	565.5	581.0	591.3	594.7	596.5
22.5°	1327.3	1053.8	604.2	480.2	501.3	527.1	545.2	562.9	549.1	537.9	534.9
25°	1310.9	991.4	531.0	450.9	479.8	503.9	524.5	505.2	498.7	490.1	491.0
27.5°	1275.6	913.4	462.1	423.3	454.3	488.8	473.7	471.1	463.0	454.3	454.3
30°	1229.1	831.2	404.4	394.5	423.8	441.0	444.4	440.6	435.8	424.6	425.5
32.5°	1187.3	744.2	363.5	370.4	404.4	404.4	419.5	419.5	402.2	370.8	370.8
35°	1146.0	662.4	333.3	350.1	372.5	379.8	400.5	373.4	348.8	334.6	333.8
37.5°	1113.7	592.6	313.5	332.9	341.5	360.0	360.5	340.7	332.5	319.6	318.3
40°	1094.7	534.0	301.5	324.3	325.2	342.4	314.0	319.6	317.8	307.9	306.6
42.5°	1084.4	488.8	292.4	317.0	312.7	295.9	290.7	300.2	303.2	298.0	295.9
45°	1076.2	453.5	285.1	291.6	302.8	272.2	270.0	277.3	283.8	283.4	281.7
47.5°	1071.9	428.9	278.6	275.6	277.8	258.0	253.7	257.1	265.3	270.5	270.0
50°	1055.1	410.0	269.2	259.3	245.5	245.5	243.3	243.3	253.2	263.6	264.4
52.5°	1025.4	387.6	255.4	243.8	227.8	234.7	235.6	233.8	244.2	255.4	256.2
55°	992.7	370.8	236.9	229.5	213.2	224.8	228.7	227.0	233.8	241.6	241.2
57.5°	993.1	370.4	220.9	215.3	199.4	212.3	221.8	222.2	221.8	227.4	227.4
60°	1018.1	379.0	208.4	196.4	183.5	199.0	214.5	214.5	211.5	219.6	220.5
62.5°	1025.4	378.1	200.7	178.3	169.3	186.9	203.7	206.3	204.1	215.8	217.1
65°	960.8	357.9	192.9	161.9	156.3	173.6	190.4	197.7	195.5	210.6	212.3
67.5°	871.2	331.6	180.9	147.3	143.0	160.6	176.6	184.3	183.9	203.7	204.6
70°	751.1	299.3	165.8	132.2	130.1	145.6	159.8	168.0	171.8	194.7	194.2
72.5°	581.8	256.7	143.0	116.3	115.8	130.1	142.5	151.6	158.9	180.9	180.9
75°	375.1	202.0	116.7	100.8	99.1	112.4	125.3	135.7	158.1	192.9	192.5
77.5°	229.1	154.2	93.9	84.0	83.5	95.6	108.5	126.2	172.7	171.8	167.1
80°	137.4	110.7	74.9	67.2	67.2	78.4	92.6	135.2	143.4	163.7	154.6
82.5°	71.5	68.0	56.0	49.5	51.7	61.6	84.4	108.1	117.1	99.5	91.3
85°	29.3	36.2	34.5	31.4	32.7	42.6	81.4	86.6	69.3	72.8	73.2
87.5°	9.9	15.9	15.9	12.5	13.8	30.1	48.2	28.9	34.9	20.7	15.5
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)