

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: P674495

Luminaire Tested: **CCP-SA-1E-850-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-850-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

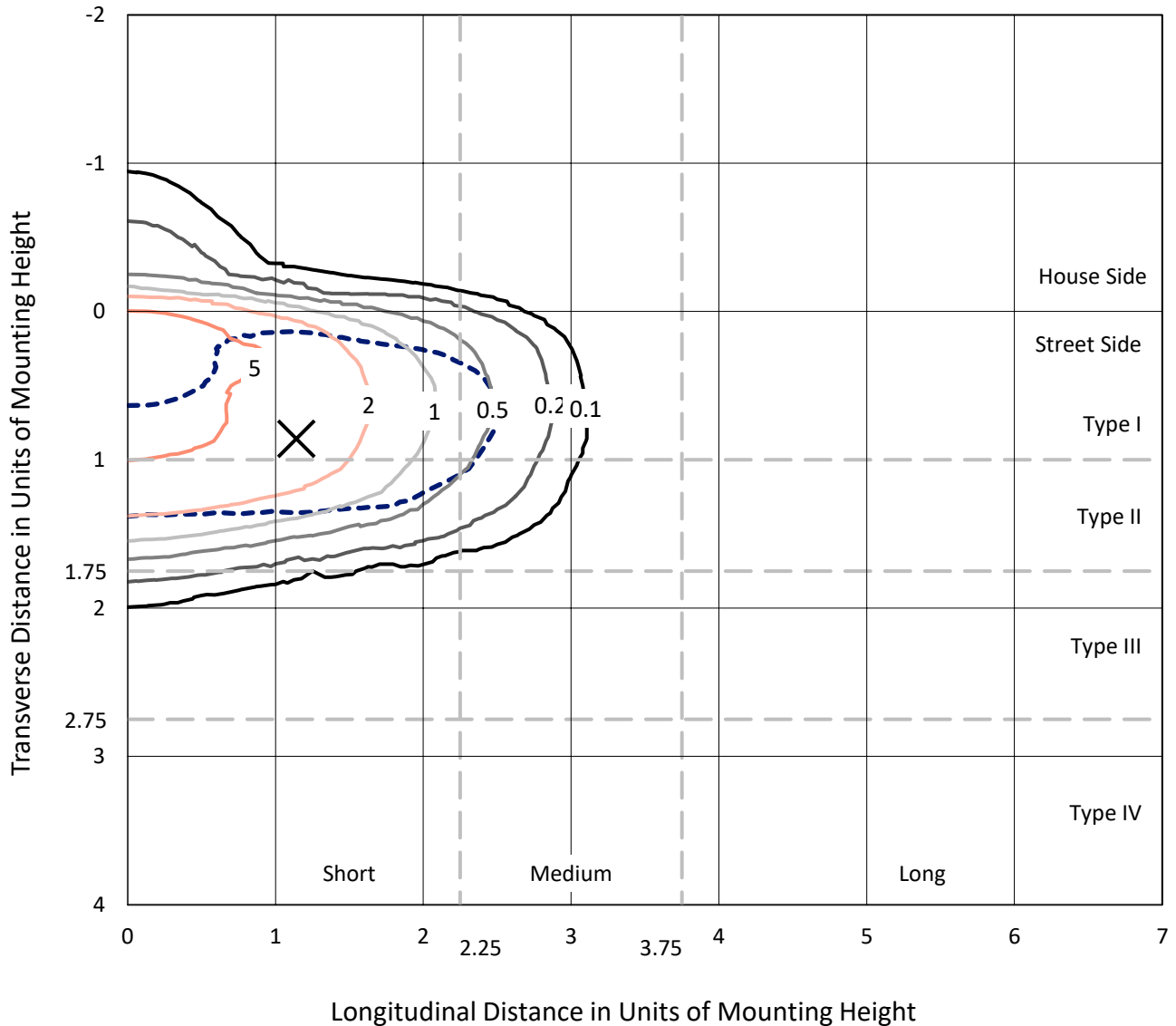
Lumens per Lamp: N/A
Luminaire Lumens: 4947.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

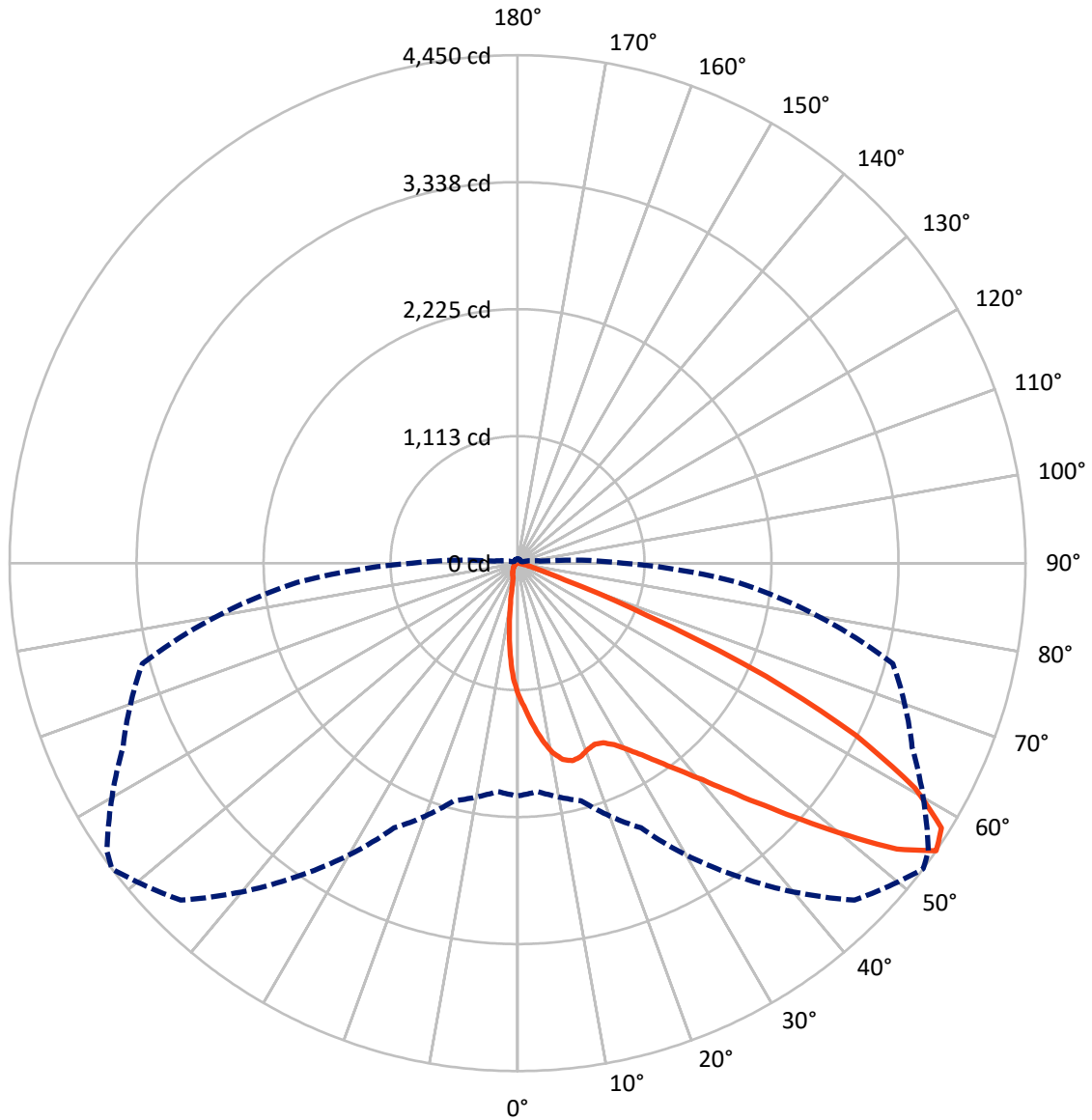
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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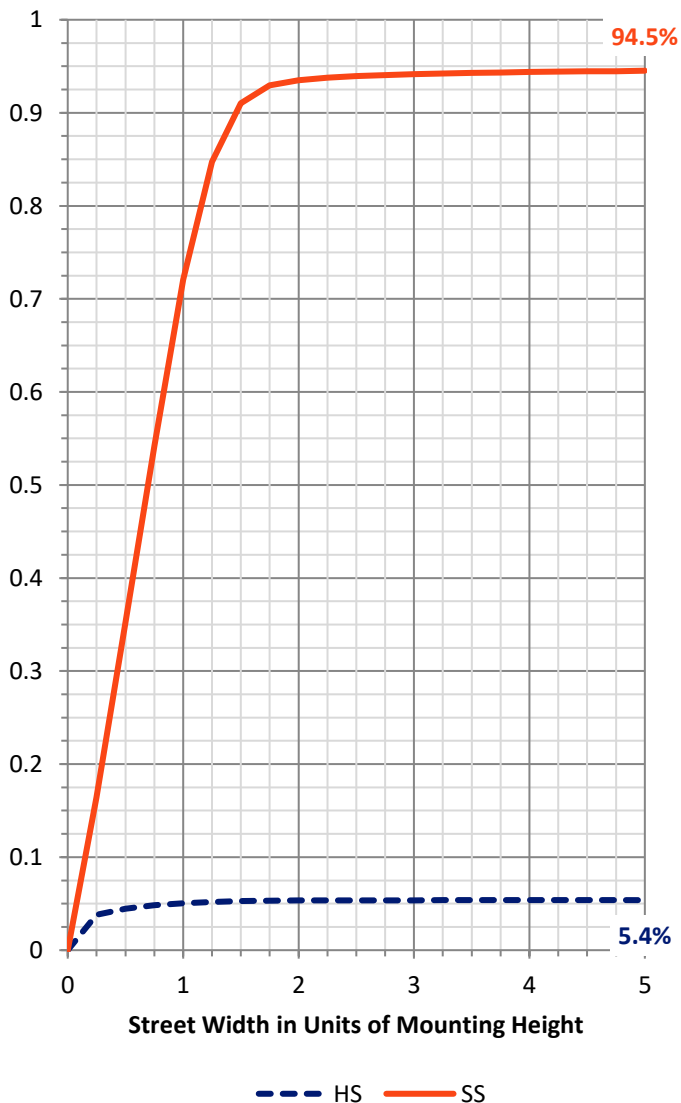
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.4	0.0	267.4
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4679.9	0.0	4679.9
	% Fixture	94.6	0.0	94.6
Total	Lumens	4947.3	0.0	4947.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	2.1
10°-20°	270.5	5.5
20°-30°	452.7	9.2
30°-40°	740.6	15.0
40°-50°	1190.5	24.1
50°-60°	1344.1	27.2
60°-70°	717.0	14.5
70°-80°	117.8	2.4
80°-90°	10.5	0.2
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°	4947.3	100.0
0°-180°	4947.3	100.0



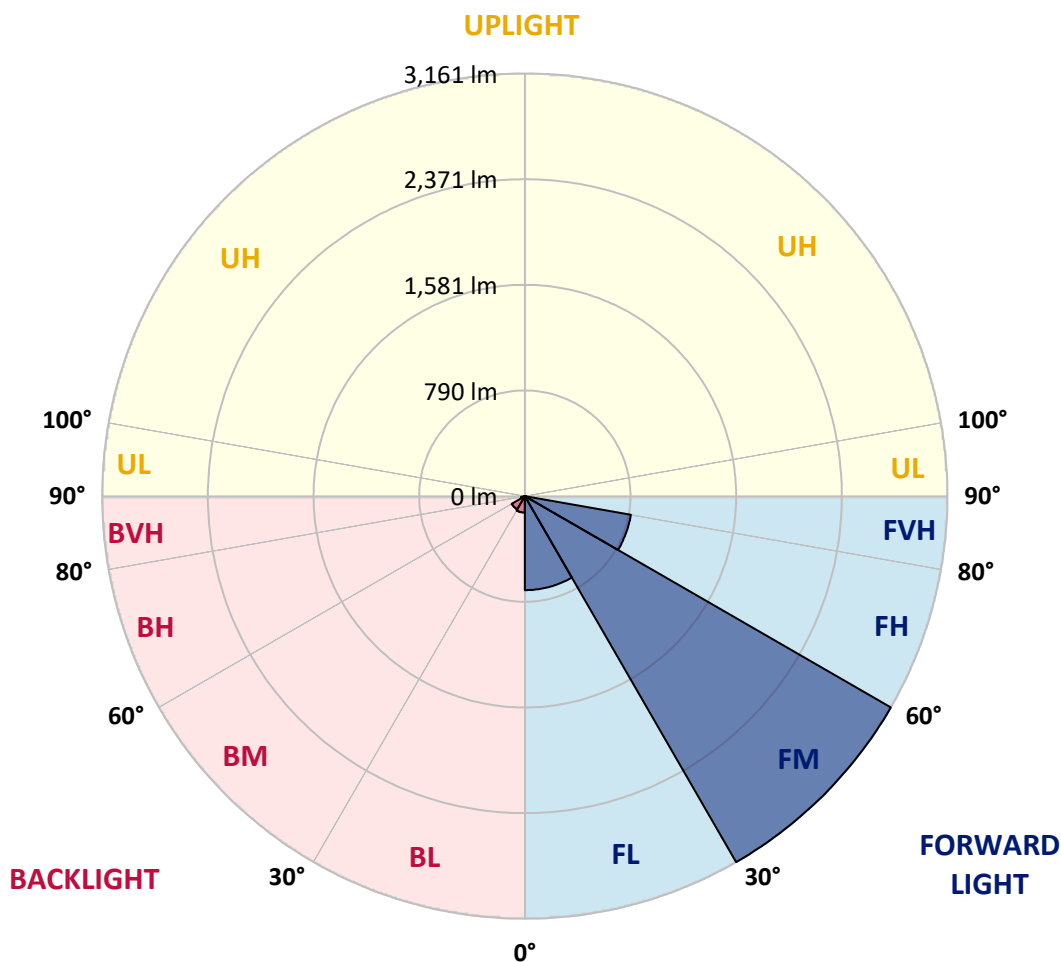
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.3	14.2			
FM (30°-60°)	3161.4	63.9			
FH (60°-80°)	805.6	16.3			G1/1800
FVH (80°-90°)	9.7	0.2			G0/10
BL (0°-30°)	123.4	2.5	B1/500		
BM (30°-60°)	113.9	2.3	B0/220		
BH (60°-80°)	29.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1388.4	1380.2	1384.9	1372.4	1349.4	1320.8	1277.9	1280.0	1246.2	1216.7	1176.0
5°	1617.7	1609.0	1606.4	1574.4	1542.3	1490.7	1427.0	1416.6	1354.6	1279.6	1194.2
7.5°	1738.6	1731.3	1736.9	1725.2	1693.6	1646.7	1566.1	1558.3	1462.5	1349.0	1223.2
10°	1683.2	1680.6	1704.4	1732.1	1757.7	1752.1	1687.5	1675.4	1567.9	1425.2	1253.2
12.5°	1534.0	1542.3	1572.6	1623.8	1702.7	1776.8	1766.4	1768.6	1675.4	1508.0	1286.1
15°	1446.5	1456.5	1473.8	1500.2	1597.3	1729.1	1796.3	1818.0	1778.5	1600.4	1325.1
17.5°	1439.1	1447.4	1450.0	1459.9	1516.7	1652.4	1784.2	1825.3	1870.4	1687.5	1368.9
20°	1495.9	1499.4	1497.2	1489.8	1510.2	1610.8	1746.0	1805.0	1946.3	1780.3	1407.5
22.5°	1603.0	1597.8	1591.3	1564.0	1562.7	1622.5	1725.2	1786.8	1991.4	1857.0	1433.0
25°	1735.6	1724.8	1715.7	1677.1	1658.9	1683.6	1743.8	1793.3	2032.1	1931.5	1451.3
27.5°	1880.4	1883.9	1861.3	1809.3	1780.7	1775.5	1801.5	1838.3	2071.5	1998.3	1461.2
30°	2035.1	2036.9	2007.4	1953.6	1927.6	1894.3	1892.5	1914.6	2114.0	2075.0	1470.8
32.5°	2211.6	2216.3	2168.2	2112.3	2066.8	2023.4	2002.2	2020.8	2190.3	2175.1	1490.3
35°	2466.4	2445.6	2380.6	2296.1	2231.5	2174.7	2142.2	2154.3	2291.7	2295.2	1529.3
37.5°	2729.1	2727.0	2655.0	2533.2	2427.4	2356.8	2301.3	2321.2	2434.4	2456.0	1591.7
40°	2974.0	2979.7	2917.2	2811.0	2674.9	2553.6	2494.2	2507.6	2623.8	2651.1	1667.6
42.5°	3134.0	3130.9	3135.7	3105.4	2968.8	2825.8	2736.5	2743.9	2844.0	2858.3	1762.5
45°	3207.7	3196.0	3236.7	3332.9	3278.8	3128.3	3026.5	3017.4	3072.4	3068.5	1848.7
47.5°	3143.9	3122.3	3215.9	3447.8	3552.7	3507.2	3361.5	3345.1	3298.3	3267.1	1938.5
50°	2827.1	2817.5	3017.8	3393.2	3724.8	3857.4	3750.4	3689.3	3499.8	3413.6	1985.7
52.5°	2525.8	2499.4	2634.6	3114.5	3648.1	4139.2	4161.3	4052.5	3667.1	3455.6	1969.7
55°	2040.3	2007.8	2155.2	2558.8	3344.2	4175.2	4450.0	4393.2	3813.7	3403.6	1937.2
57.5°	1239.3	1207.2	1423.9	1832.7	2674.5	3876.1	4378.9	4436.6	3926.4	3346.4	1915.9
60°	521.0	500.7	585.6	874.7	1707.9	3185.6	4001.8	4145.7	3947.6	3267.9	1924.6
62.5°	270.9	261.8	266.6	350.2	690.5	2097.6	3330.8	3581.3	3733.5	3233.2	1933.3
65°	203.3	196.4	181.2	192.5	268.3	906.8	2393.6	2729.1	3269.2	3145.2	1874.8
67.5°	166.9	160.4	149.5	146.1	158.2	314.7	1221.9	1658.0	2561.8	2770.3	1665.0
70°	133.1	130.9	127.4	120.9	118.8	152.6	438.2	675.8	1694.0	1953.6	1206.8
72.5°	111.0	111.4	107.5	101.9	94.1	98.4	174.7	231.0	819.7	936.7	505.4
75°	92.8	92.8	94.1	86.3	78.5	67.6	97.1	112.7	263.1	216.3	107.9
77.5°	72.8	73.7	79.3	72.8	62.9	42.5	52.9	60.3	78.0	62.4	39.4
80°	58.1	57.2	55.1	65.5	56.4	29.9	25.1	27.7	36.4	29.9	19.5
82.5°	40.7	40.3	38.6	44.2	43.8	22.1	16.5	16.9	22.1	19.1	12.1
85°	10.0	11.7	24.7	20.8	18.2	13.0	10.0	10.8	14.3	12.6	6.5
87.5°	4.3	4.3	11.3	13.4	8.7	5.6	4.3	4.8	7.4	7.4	3.9
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°	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1161.7	1133.5	1098.0	1060.3	1021.7	975.3	945.8	921.6	902.5	887.7	882.5
5°	1166.0	1111.8	1031.2	931.1	829.2	733.9	660.2	605.6	560.5	535.8	524.9
7.5°	1165.6	1093.6	948.0	780.2	614.7	477.2	379.7	319.5	279.2	262.7	252.7
10°	1165.2	1069.8	853.1	612.9	410.9	276.6	203.7	169.9	155.2	149.5	148.7
12.5°	1177.7	1042.5	746.9	451.2	257.9	172.1	141.7	133.9	130.5	128.7	128.3
15°	1184.7	1017.4	635.0	318.6	173.8	136.1	126.6	123.1	121.8	120.9	120.5
17.5°	1192.0	978.3	528.8	230.6	139.1	123.5	117.9	115.7	114.9	114.9	114.9
20°	1193.3	936.3	423.5	169.9	123.5	115.3	109.7	107.5	106.2	105.3	105.3
22.5°	1183.8	886.4	332.9	137.8	114.4	107.5	101.4	98.0	95.8	95.4	95.4
25°	1160.0	815.8	255.3	120.9	107.1	99.7	92.3	88.4	86.7	86.7	86.7
27.5°	1125.7	732.6	197.2	107.5	97.5	90.2	83.7	80.2	79.8	79.3	79.8
30°	1086.7	652.4	150.8	95.4	86.3	80.2	75.0	73.3	74.1	74.1	74.6
32.5°	1047.7	572.2	117.9	85.8	76.3	71.1	68.5	68.5	69.8	69.8	69.8
35°	1014.3	493.7	98.8	78.0	69.4	65.0	63.7	65.0	65.9	66.3	66.3
37.5°	995.7	426.1	87.1	71.1	63.7	60.3	59.8	61.1	62.9	64.2	64.6
40°	988.7	374.1	80.2	65.9	58.5	56.4	55.9	57.7	60.7	62.9	63.3
42.5°	989.2	328.1	74.1	60.7	55.1	52.0	52.0	54.6	57.7	59.8	59.8
45°	992.2	288.7	68.1	55.5	52.0	46.8	47.2	50.7	52.9	55.1	55.1
47.5°	994.8	257.0	61.6	49.8	45.1	42.5	43.3	45.9	49.0	52.4	52.4
50°	979.6	234.5	55.1	43.8	39.4	38.6	40.3	42.5	46.8	50.3	50.7
52.5°	943.2	214.1	49.4	39.0	35.5	36.0	38.1	39.4	42.9	43.3	43.8
55°	927.2	203.7	45.1	35.5	32.5	33.8	35.1	35.5	34.7	32.5	32.5
57.5°	923.7	196.8	40.7	32.1	29.9	31.6	31.2	28.6	26.0	23.4	23.0
60°	927.2	187.3	37.3	27.7	27.3	27.7	26.4	21.7	18.2	16.5	15.6
62.5°	907.2	173.4	34.2	23.8	23.8	23.4	19.9	14.7	11.7	10.4	10.0
65°	841.4	146.1	31.2	19.9	19.5	18.6	13.4	10.0	7.8	6.5	6.1
67.5°	711.8	113.1	28.2	16.5	15.6	13.0	8.7	6.5	4.3	3.9	3.5
70°	485.5	70.2	23.8	13.0	11.7	8.2	5.2	3.9	2.6	2.2	1.7
72.5°	176.0	40.7	19.9	10.0	7.8	5.2	3.0	1.7	1.3	1.3	0.9
75°	41.6	28.6	15.2	7.4	5.2	3.0	1.7	1.3	0.9	0.9	0.4
77.5°	19.1	22.1	10.0	4.3	3.5	2.2	1.3	0.9	0.4	0.4	0.0
80°	10.8	15.6	4.8	3.0	2.6	1.7	0.9	0.4	0.4	0.0	0.0
82.5°	5.6	8.7	3.5	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0
85°	3.9	4.3	2.6	2.2	1.7	1.3	0.9	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	2.6	2.2	1.7	1.3	0.4	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)