

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: P673490

Luminaire Tested: **CCP-SA-2B-850-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673490
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4FT distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

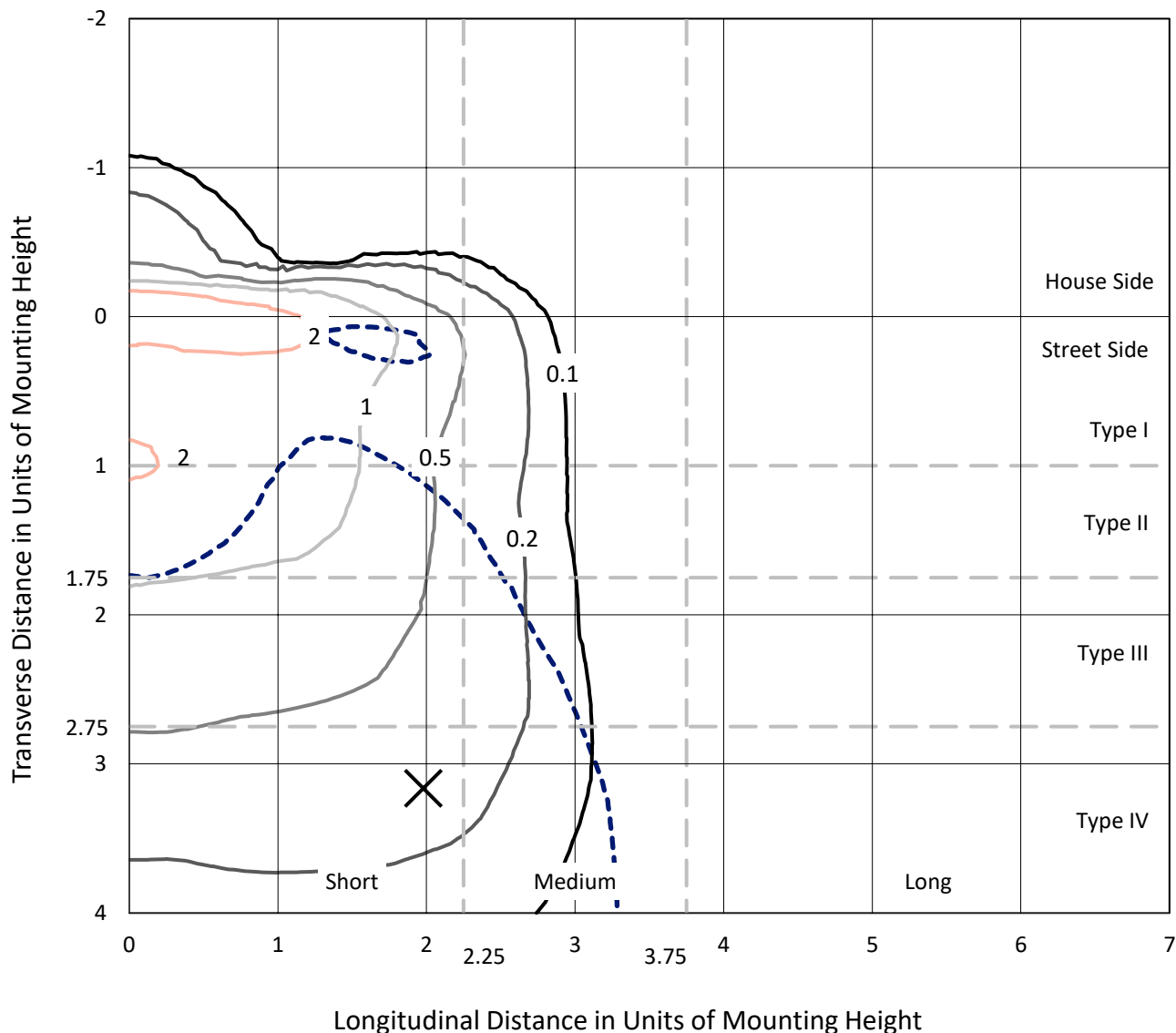
Lumens per Lamp: N/A
Luminaire Lumens: 4327.2 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

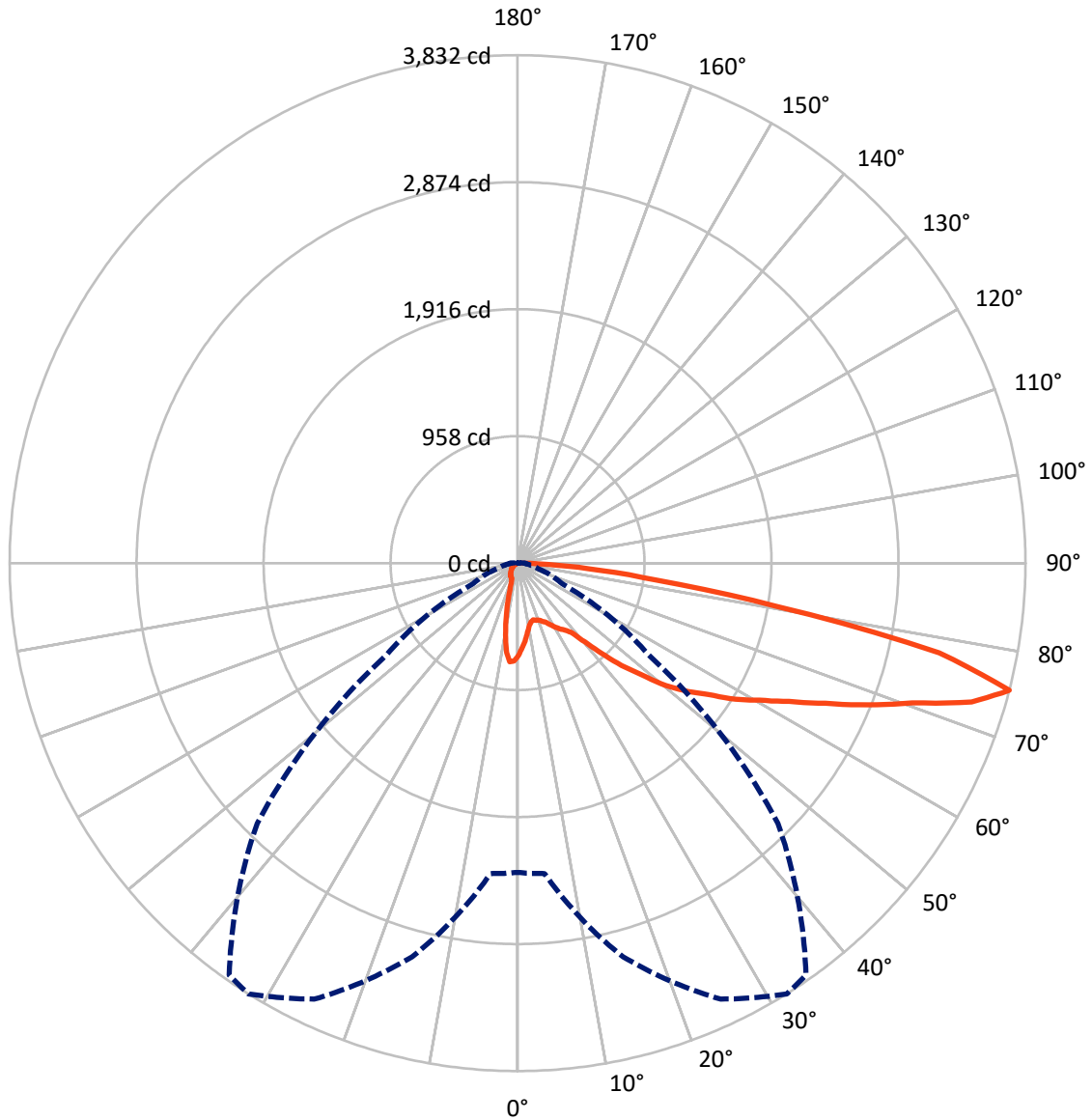
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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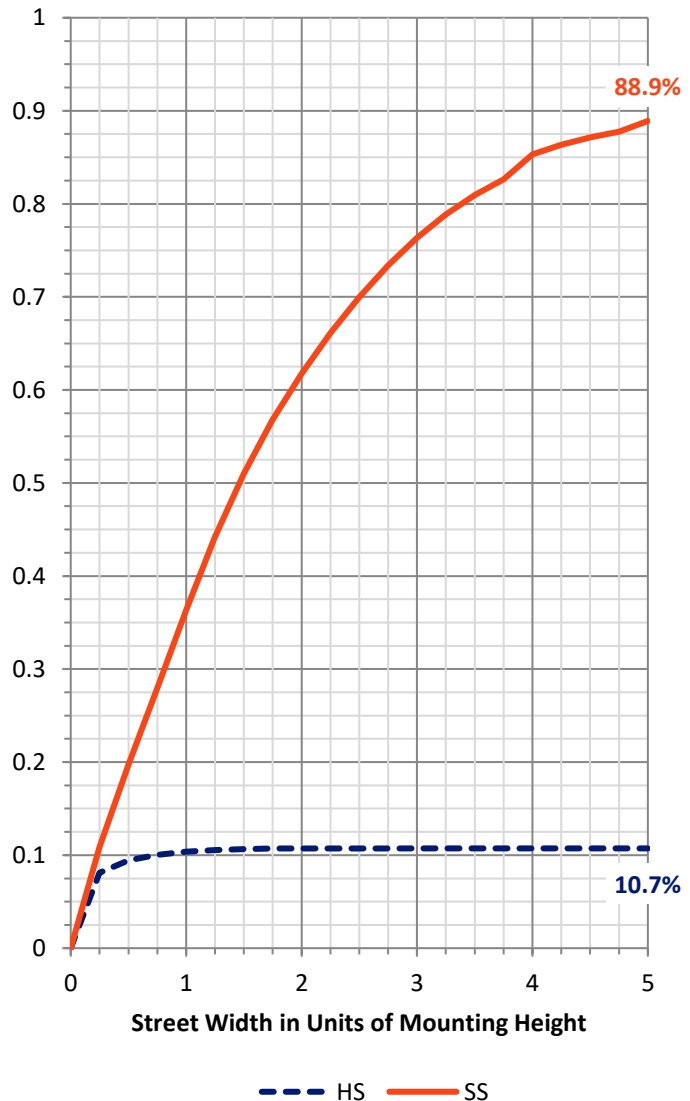
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.5	0.0	467.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3859.7	0.0	3859.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4327.2	0.0	4327.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.4
10°-20°	139.4	3.2
20°-30°	208.7	4.8
30°-40°	320.4	7.4
40°-50°	560.3	12.9
50°-60°	875.8	20.2
60°-70°	1132.3	26.2
70°-80°	922.2	21.3
80°-90°	106.8	2.5
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°	4327.2	100.0
0°-180°	4327.2	100.0



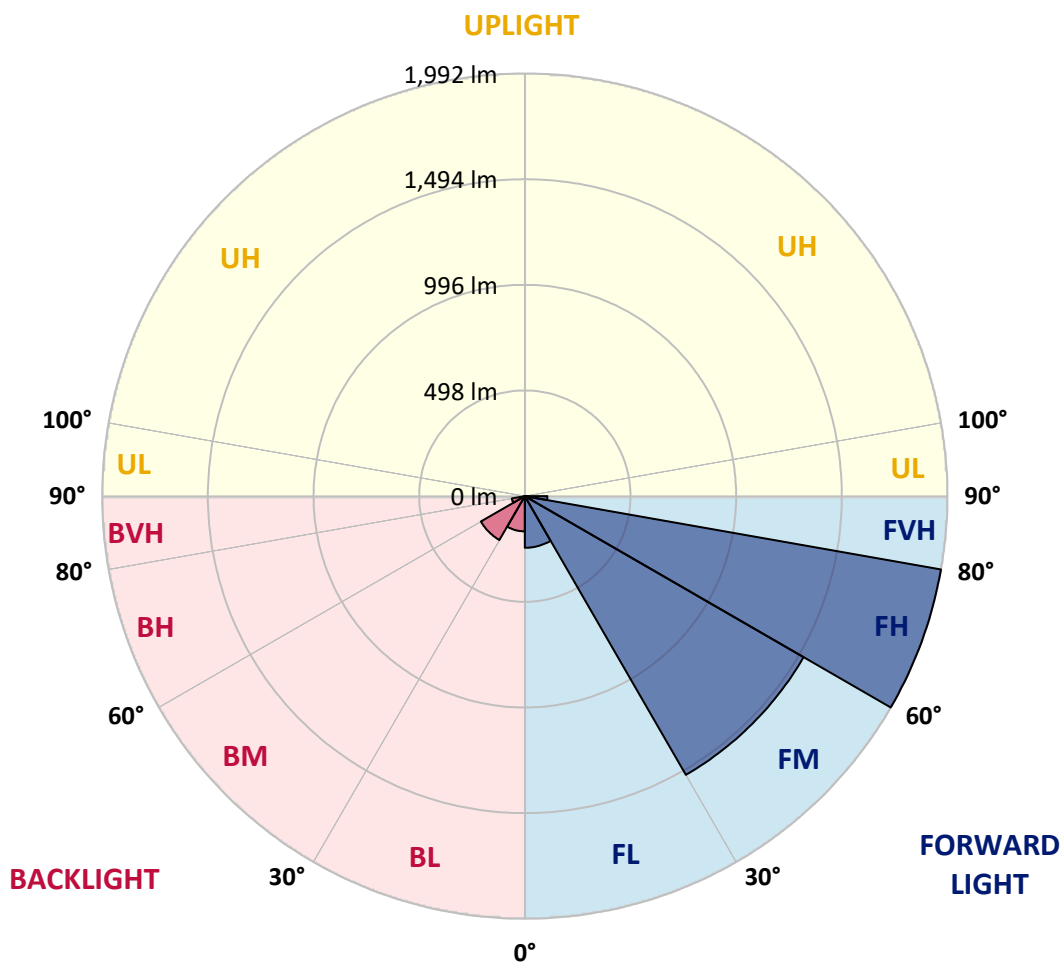
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.5	5.6			
FM (30°-60°)	1517.3	35.1			
FH (60°-80°)	1992.3	46.0			G2/5000
FVH (80°-90°)	106.7	2.5			G2/225
BL (0°-30°)	166.1	3.8	B1/500		
BM (30°-60°)	239.2	5.5	B1/1000		
BH (60°-80°)	62.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7
2.5°	626.6	635.5	634.4	639.9	641.0	644.4	652.1	652.1	674.3	689.8	699.8
5°	570.1	564.5	566.7	573.4	590.0	588.9	607.8	617.7	644.4	666.5	689.8
7.5°	500.2	499.1	503.5	519.0	531.2	541.2	561.2	586.7	622.2	655.5	696.5
10°	455.8	453.6	462.5	466.9	481.3	488.0	519.0	559.0	601.1	648.8	696.5
12.5°	445.8	438.1	442.5	441.4	454.7	458.0	488.0	536.8	587.8	646.6	705.4
15°	451.4	445.8	441.4	441.4	444.7	447.0	479.1	522.4	580.0	649.9	725.3
17.5°	469.1	465.8	452.5	439.2	453.6	453.6	473.6	519.0	581.1	659.9	749.7
20°	490.2	486.9	463.6	448.1	458.0	469.1	490.2	526.8	584.5	667.7	787.4
22.5°	513.5	513.5	481.3	463.6	476.9	478.0	515.7	551.2	597.8	687.6	811.8
25°	542.3	540.1	509.1	489.1	493.5	505.7	540.1	577.8	622.2	715.3	857.3
27.5°	580.0	576.7	540.1	520.2	525.7	539.0	577.8	615.5	644.4	726.4	896.1
30°	611.1	607.8	577.8	547.9	560.1	572.3	617.7	651.0	672.1	747.5	940.5
32.5°	617.7	612.2	592.2	578.9	592.2	615.5	651.0	685.4	717.6	800.7	1024.8
35°	694.3	674.3	622.2	601.1	621.1	628.8	687.6	748.6	779.7	842.9	1119.0
37.5°	840.7	821.8	753.1	694.3	666.5	675.4	751.9	827.4	857.3	921.6	1222.2
40°	1020.3	989.3	916.1	837.3	780.8	769.7	819.6	930.5	959.3	1020.3	1357.5
42.5°	1225.5	1195.6	1082.4	989.3	931.6	917.2	925.0	1050.3	1074.7	1111.3	1446.2
45°	1373.0	1357.5	1230.0	1146.8	1101.3	1085.8	1066.9	1181.2	1212.2	1224.4	1574.9
47.5°	1458.4	1447.3	1376.3	1319.8	1258.8	1242.2	1254.4	1363.0	1342.0	1351.9	1698.0
50°	1572.7	1543.8	1447.3	1465.1	1452.9	1448.4	1469.5	1517.2	1486.1	1457.3	1832.2
52.5°	1664.7	1613.7	1546.0	1589.3	1608.1	1624.8	1699.1	1734.6	1595.9	1551.6	1918.7
55°	1721.3	1672.5	1690.2	1730.1	1750.1	1826.6	1914.2	1887.6	1668.0	1627.0	2034.0
57.5°	1772.3	1775.6	1823.3	1835.5	1937.5	1950.8	2119.4	2032.9	1719.0	1695.8	2079.5
60°	1895.4	1883.2	1922.0	2000.8	2098.3	2172.7	2333.5	2130.5	1744.6	1731.2	2067.3
62.5°	2117.2	2041.8	2055.1	2154.9	2298.0	2378.9	2456.6	2174.9	1737.9	1736.8	2030.7
65°	2398.9	2312.4	2272.5	2365.6	2550.8	2665.1	2595.2	2224.8	1693.5	1724.6	1894.3
67.5°	2632.9	2634.0	2559.7	2611.8	2853.6	2878.0	2726.1	2214.8	1619.2	1628.1	1561.6
70°	2902.4	2939.0	2873.6	3036.6	3157.5	3173.0	2875.8	2132.7	1459.5	1227.7	897.2
72.5°	2971.2	2990.0	3194.1	3444.8	3581.2	3585.6	3023.3	1858.8	960.4	542.3	278.4
75°	2333.5	2351.2	3074.3	3628.9	3831.8	3793.0	2777.1	1206.7	373.8	158.6	66.5
77.5°	1302.0	1307.6	1908.7	2933.5	3250.7	3094.3	1945.3	470.2	150.8	90.9	31.1
80°	356.0	418.1	707.6	1446.2	1985.2	1948.6	926.1	153.1	97.6	71.0	14.4
82.5°	85.4	92.1	227.4	639.9	1049.2	1094.6	276.2	77.6	67.7	58.8	7.8
85°	31.1	34.4	69.9	311.6	539.0	494.6	83.2	38.8	49.9	45.5	3.3
87.5°	11.1	11.1	22.2	102.0	157.5	118.7	27.7	13.3	25.5	27.7	1.1
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°	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7
2.5°	700.9	700.9	716.5	729.8	734.2	739.7	734.2	746.4	745.3	739.7	742.0
5°	702.0	722.0	735.3	744.2	748.6	747.5	749.7	736.4	728.7	723.1	717.6
7.5°	707.6	726.4	750.8	748.6	736.4	710.9	690.9	655.5	621.1	620.0	614.4
10°	726.4	743.1	757.5	748.6	704.3	626.6	563.4	515.7	472.5	452.5	454.7
12.5°	739.7	770.8	764.1	718.7	626.6	524.6	431.4	361.6	322.7	286.1	286.1
15°	767.5	778.6	776.3	675.4	531.2	409.2	296.1	225.1	184.1	167.5	165.3
17.5°	794.1	806.3	768.6	610.0	437.0	275.0	179.7	139.7	134.2	132.0	133.1
20°	827.4	828.5	761.9	544.6	328.3	174.1	128.7	125.3	126.4	125.3	125.3
22.5°	862.9	870.6	738.6	452.5	218.5	126.4	119.8	120.9	120.9	120.9	124.2
25°	909.4	897.2	702.0	364.9	143.1	116.5	116.5	117.6	117.6	117.6	118.7
27.5°	940.5	923.8	655.5	262.8	112.0	109.8	112.0	112.0	114.2	114.2	114.2
30°	1004.8	961.6	596.7	169.7	100.9	104.3	106.5	108.7	109.8	112.0	113.1
32.5°	1054.7	994.8	523.5	113.1	92.1	94.3	99.8	104.3	108.7	107.6	107.6
35°	1145.7	1049.2	455.8	89.8	84.3	84.3	89.8	97.6	104.3	106.5	106.5
37.5°	1249.9	1093.5	361.6	82.1	77.6	77.6	81.0	89.8	98.7	103.1	100.9
40°	1336.4	1144.6	267.3	76.5	72.1	72.1	74.3	81.0	90.9	98.7	99.8
42.5°	1397.4	1182.3	180.8	71.0	67.7	66.5	69.9	73.2	81.0	92.1	94.3
45°	1452.9	1202.2	112.0	65.4	63.2	63.2	63.2	66.5	72.1	82.1	84.3
47.5°	1551.6	1224.4	81.0	61.0	57.7	58.8	59.9	61.0	65.4	67.7	68.8
50°	1634.8	1241.0	66.5	56.6	54.3	55.5	55.5	55.5	57.7	54.3	54.3
52.5°	1698.0	1224.4	56.6	52.1	49.9	51.0	49.9	49.9	47.7	43.3	43.3
55°	1744.6	1194.5	45.5	47.7	47.7	47.7	45.5	42.1	37.7	34.4	34.4
57.5°	1756.8	1143.4	35.5	39.9	43.3	43.3	38.8	34.4	28.8	25.5	24.4
60°	1737.9	1032.5	26.6	28.8	33.3	34.4	31.1	25.5	20.0	16.6	16.6
62.5°	1670.2	944.9	21.1	18.9	24.4	25.5	22.2	16.6	11.1	7.8	6.7
65°	1541.6	809.6	15.5	13.3	16.6	17.7	14.4	7.8	3.3	1.1	0.0
67.5°	1236.6	610.0	10.0	8.9	11.1	11.1	6.7	2.2	0.0	0.0	0.0
70°	684.3	342.7	6.7	4.4	5.5	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	197.4	97.6	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	53.2	23.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.3	8.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	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)