

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: P674786

Luminaire Tested: **CCP-SA-2B-850-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-850-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

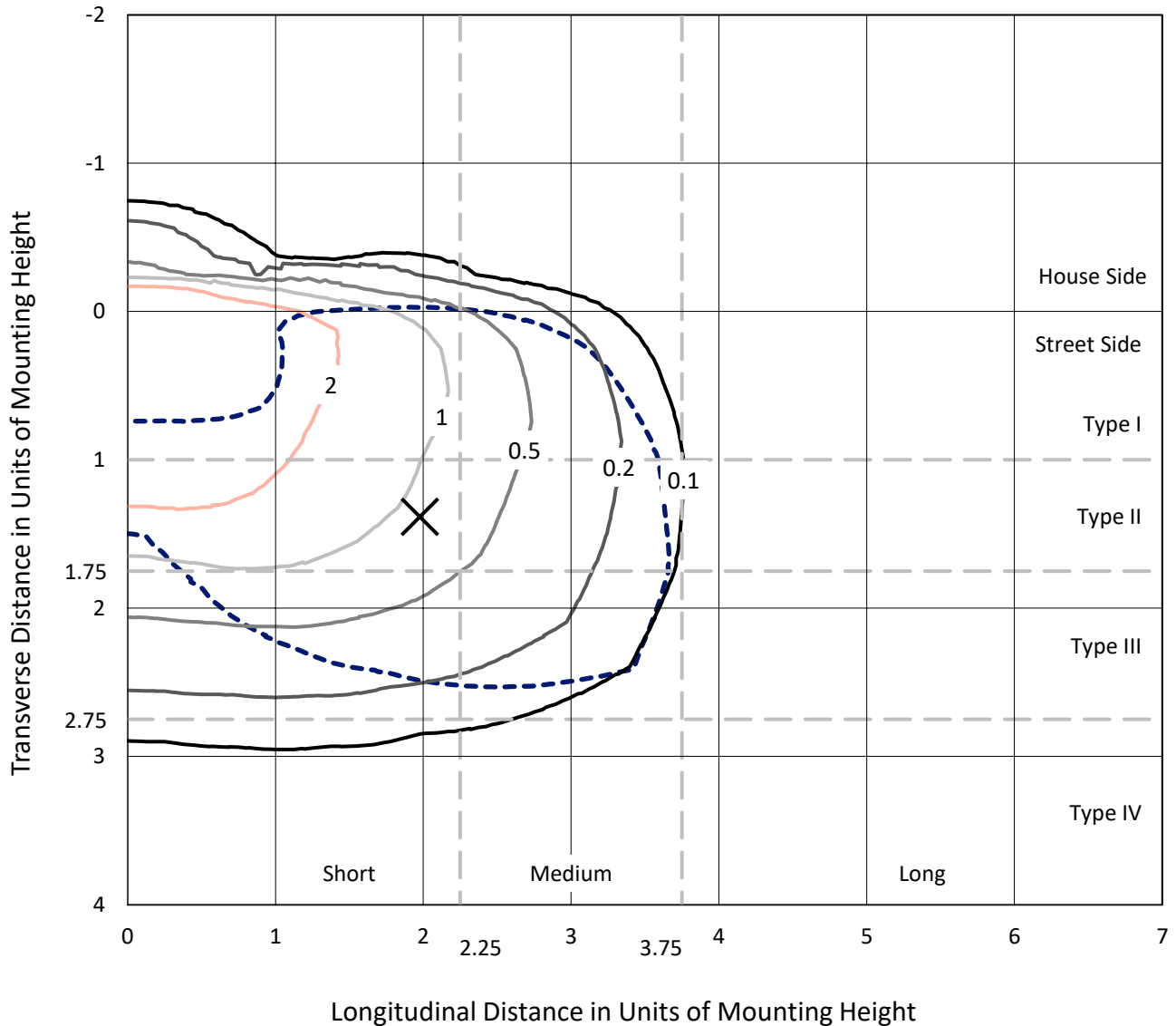
Lumens per Lamp: N/A
Luminaire Lumens: 4779.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

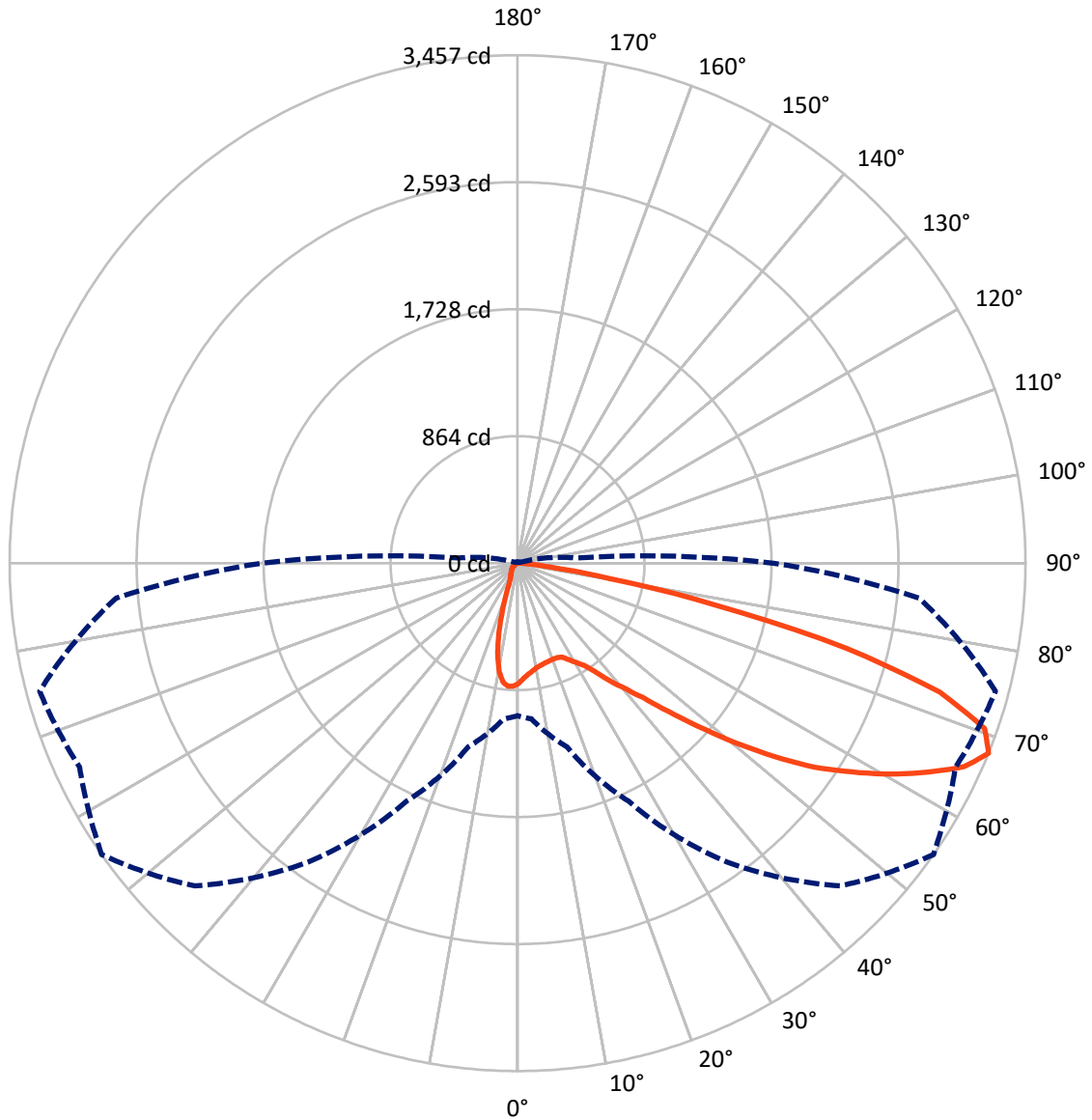
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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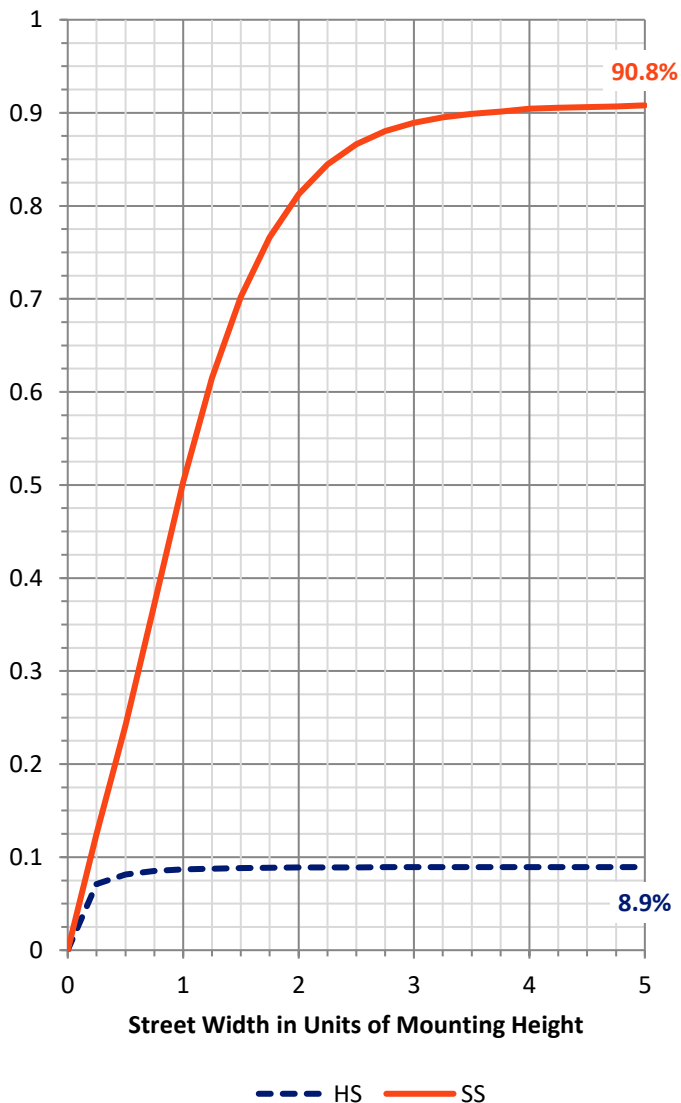
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.4	0.0	429.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	4350.1	0.0	4350.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	4779.5	0.0	4779.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.5
10°-20°	163.7	3.4
20°-30°	262.6	5.5
30°-40°	455.4	9.5
40°-50°	759.4	15.9
50°-60°	1110.5	23.2
60°-70°	1294.8	27.1
70°-80°	628.4	13.1
80°-90°	32.9	0.7
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°	4779.5	100.0
0°-180°	4779.5	100.0



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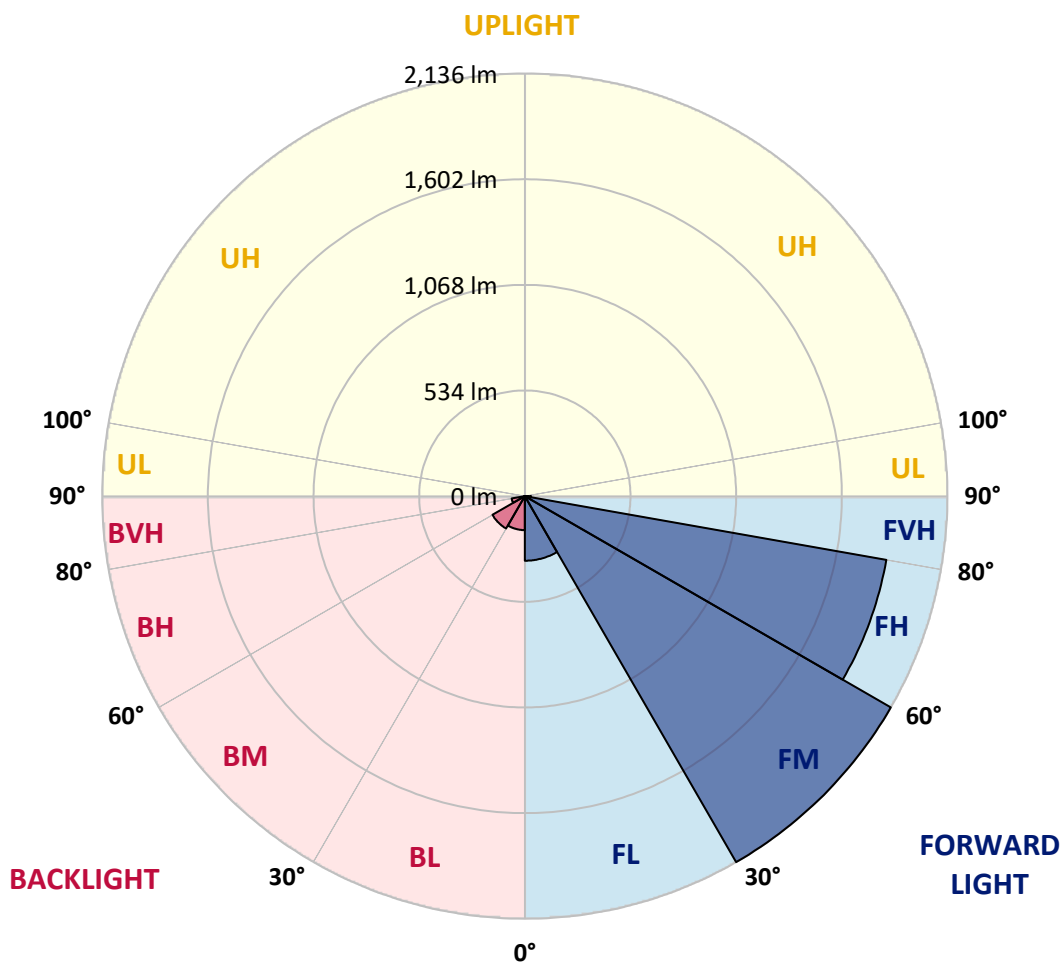
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.5	6.8			
FM (30°-60°)	2136.3	44.7			
FH (60°-80°)	1855.4	38.8			G2/5000
FVH (80°-90°)	31.9	0.7			G1/100
BL (0°-30°)	171.6	3.6	B1/500		
BM (30°-60°)	189.0	4.0	B0/220		
BH (60°-80°)	67.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	756.1	760.9	767.1	769.3	776.8	787.4	784.3	782.1	794.0	810.3	815.5
5°	709.0	709.4	719.1	726.1	738.9	749.0	760.1	759.2	780.8	808.5	826.1
7.5°	662.7	663.6	673.7	684.8	703.2	723.1	739.8	738.9	773.7	810.7	844.2
10°	602.0	606.4	618.7	638.1	667.1	698.4	721.7	723.9	765.8	819.1	868.8
12.5°	553.1	555.3	568.9	594.0	628.4	669.3	712.9	711.6	767.5	834.5	901.0
15°	532.4	531.1	539.4	557.9	597.1	648.6	704.1	707.2	773.7	852.1	934.4
17.5°	537.2	535.9	540.3	546.9	574.7	631.5	699.3	704.6	783.4	870.6	965.7
20°	591.0	581.7	573.8	566.7	570.7	617.4	696.2	701.9	789.1	884.7	998.7
22.5°	694.4	683.0	661.9	622.7	596.7	618.3	697.1	704.6	801.9	907.6	1038.8
25°	863.1	852.1	806.7	726.6	657.9	650.0	709.0	716.9	831.4	942.4	1081.5
27.5°	1086.4	1061.7	1006.7	891.7	759.2	700.6	744.6	753.4	873.2	969.2	1110.6
30°	1271.7	1266.0	1213.2	1072.3	898.8	775.0	784.7	789.6	892.2	985.5	1139.6
32.5°	1464.2	1452.3	1403.9	1266.9	1060.8	881.2	829.6	831.8	916.8	1009.7	1181.9
35°	1631.5	1620.5	1580.0	1447.0	1250.2	1023.8	904.0	899.2	967.9	1063.0	1239.2
37.5°	1786.5	1785.2	1749.5	1613.9	1420.1	1171.8	1013.7	1009.7	1047.6	1121.6	1316.7
40°	1938.0	1934.5	1904.1	1780.4	1587.5	1319.3	1118.1	1107.9	1115.4	1203.5	1418.8
42.5°	2030.9	2038.4	2049.0	1970.6	1786.1	1492.4	1250.2	1244.0	1242.7	1331.6	1553.1
45°	2081.1	2094.3	2156.4	2149.4	1996.6	1707.7	1438.2	1422.3	1417.1	1507.8	1706.8
47.5°	2130.0	2135.7	2237.4	2280.2	2198.3	1932.3	1665.4	1643.4	1621.8	1722.7	1890.4
50°	2133.1	2142.3	2268.3	2372.2	2367.4	2153.3	1920.4	1901.0	1876.4	1984.2	2069.7
52.5°	2089.9	2108.4	2264.3	2430.3	2472.2	2348.4	2185.0	2169.2	2148.9	2229.5	2220.7
55°	1791.8	1823.1	2186.8	2435.6	2545.7	2515.8	2451.0	2429.0	2409.2	2466.4	2368.7
57.5°	1650.0	1667.6	1951.7	2431.6	2639.5	2670.8	2681.8	2671.6	2643.9	2715.2	2523.2
60°	1565.0	1590.6	1839.4	2387.6	2740.8	2846.0	2915.2	2894.9	2861.0	2959.2	2688.8
62.5°	1463.3	1481.8	1727.5	2260.8	2801.1	3024.4	3134.0	3115.5	3045.5	3184.2	2822.7
65°	1275.7	1303.5	1549.6	2061.3	2720.1	3155.1	3340.1	3333.9	3212.4	3354.2	2859.2
67.5°	1038.4	1063.5	1292.9	1787.8	2483.2	3106.3	3456.8	3437.4	3288.1	3367.0	2743.4
70°	779.4	793.1	966.1	1366.0	2034.4	2845.1	3372.2	3368.3	3173.2	3177.6	2388.0
72.5°	418.3	456.2	642.5	914.2	1430.7	2304.4	3005.4	2989.6	2831.0	2602.5	1717.4
75°	146.2	157.2	342.2	513.5	777.2	1535.1	2311.0	2274.0	2117.2	1692.7	935.8
77.5°	89.8	98.6	151.9	262.5	302.5	666.3	1388.4	1340.4	1239.2	731.9	319.7
80°	62.1	70.0	101.7	137.4	103.0	215.8	639.0	620.9	477.8	174.4	73.5
82.5°	34.8	41.8	77.1	67.4	41.4	55.9	221.5	205.2	127.3	47.1	24.7
85°	20.3	24.2	54.2	47.6	21.1	19.8	57.7	51.5	33.0	17.6	11.9
87.5°	10.6	13.7	39.6	31.7	12.8	7.0	13.2	12.8	8.4	6.2	7.9
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°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	825.2	823.0	834.5	838.4	837.6	835.8	840.2	834.5	834.0	832.7	831.4
5°	840.2	843.7	853.0	853.0	840.6	820.4	808.1	791.3	777.2	768.9	767.5
7.5°	862.7	869.7	875.9	856.9	814.7	764.5	711.2	669.3	632.8	613.9	612.1
10°	894.4	901.0	896.1	842.0	751.2	647.3	560.6	473.4	429.8	406.0	406.0
12.5°	932.2	937.5	908.0	804.5	646.9	496.3	380.5	288.9	245.3	217.1	215.3
15°	973.2	974.5	906.3	739.4	517.9	333.3	218.4	160.3	141.8	137.8	137.0
17.5°	1008.9	1003.6	887.8	642.9	373.0	198.6	138.7	125.5	122.0	122.0	122.0
20°	1042.3	1024.7	850.8	530.6	239.1	135.2	119.3	115.8	115.8	116.3	116.3
22.5°	1079.3	1044.5	797.9	406.0	153.7	115.8	111.9	110.1	109.6	111.0	110.5
25°	1122.9	1063.9	722.2	280.5	118.9	107.9	106.1	104.4	104.4	104.4	104.4
27.5°	1147.1	1061.3	635.9	177.0	103.9	100.0	98.2	96.4	95.1	94.7	95.1
30°	1168.3	1045.8	523.1	123.7	93.8	89.4	88.1	85.9	83.2	82.3	82.3
32.5°	1196.0	1033.1	405.1	99.5	85.0	80.1	76.2	72.7	68.3	66.5	66.1
35°	1226.8	1009.7	296.8	87.6	77.1	70.9	64.7	59.0	53.3	51.5	51.1
37.5°	1265.1	988.6	201.2	81.0	70.5	63.0	54.6	46.7	41.4	40.5	40.5
40°	1317.1	971.0	139.2	75.3	64.3	55.5	45.4	37.0	33.5	32.6	32.6
42.5°	1388.0	956.5	105.2	70.5	59.0	48.0	36.5	30.4	27.7	26.9	26.9
45°	1471.7	934.0	89.0	66.1	53.7	40.5	30.4	25.5	24.2	24.2	24.2
47.5°	1567.7	905.8	81.0	61.6	48.0	33.0	25.5	23.3	22.9	22.9	23.3
50°	1664.5	872.3	75.3	56.4	41.4	28.2	23.3	22.0	22.0	22.5	22.5
52.5°	1730.2	819.9	69.6	50.6	34.8	24.7	22.0	21.6	21.1	21.1	21.1
55°	1794.0	774.1	61.6	44.5	29.1	22.9	21.1	20.7	20.7	20.3	20.3
57.5°	1860.5	738.0	51.5	37.0	24.7	21.6	20.3	20.3	19.4	18.9	18.9
60°	1937.6	706.3	39.6	29.1	21.6	20.3	18.9	18.5	17.6	16.7	16.7
62.5°	1960.0	639.4	29.9	23.3	18.5	17.6	17.2	16.3	14.1	12.3	12.8
65°	1901.5	534.2	23.8	18.5	15.0	15.0	13.7	11.4	9.2	7.9	7.9
67.5°	1739.8	399.0	19.4	14.5	11.9	11.4	9.7	8.4	5.7	4.8	4.8
70°	1433.8	263.8	15.9	11.4	9.7	7.9	6.6	6.2	4.4	3.5	3.5
72.5°	1004.9	143.1	13.2	9.2	7.0	5.3	4.4	4.0	3.1	2.6	2.2
75°	530.6	55.0	10.6	7.0	4.4	3.5	2.6	2.6	2.2	1.8	1.8
77.5°	181.9	23.3	7.5	4.0	3.1	2.2	1.8	1.3	1.8	1.3	1.3
80°	43.2	13.7	4.8	2.6	1.8	1.3	1.3	0.9	0.9	0.9	0.9
82.5°	18.9	7.9	3.1	1.8	1.8	1.3	0.9	0.4	0.4	0.4	0.4
85°	12.8	4.8	2.2	1.8	1.3	0.9	0.4	0.4	0.0	0.0	0.0
87.5°	10.1	3.1	1.8	1.8	1.3	0.9	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)