

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: P674607

Luminaire Tested: **CCP-SA-1F-830-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-830-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ T2R distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

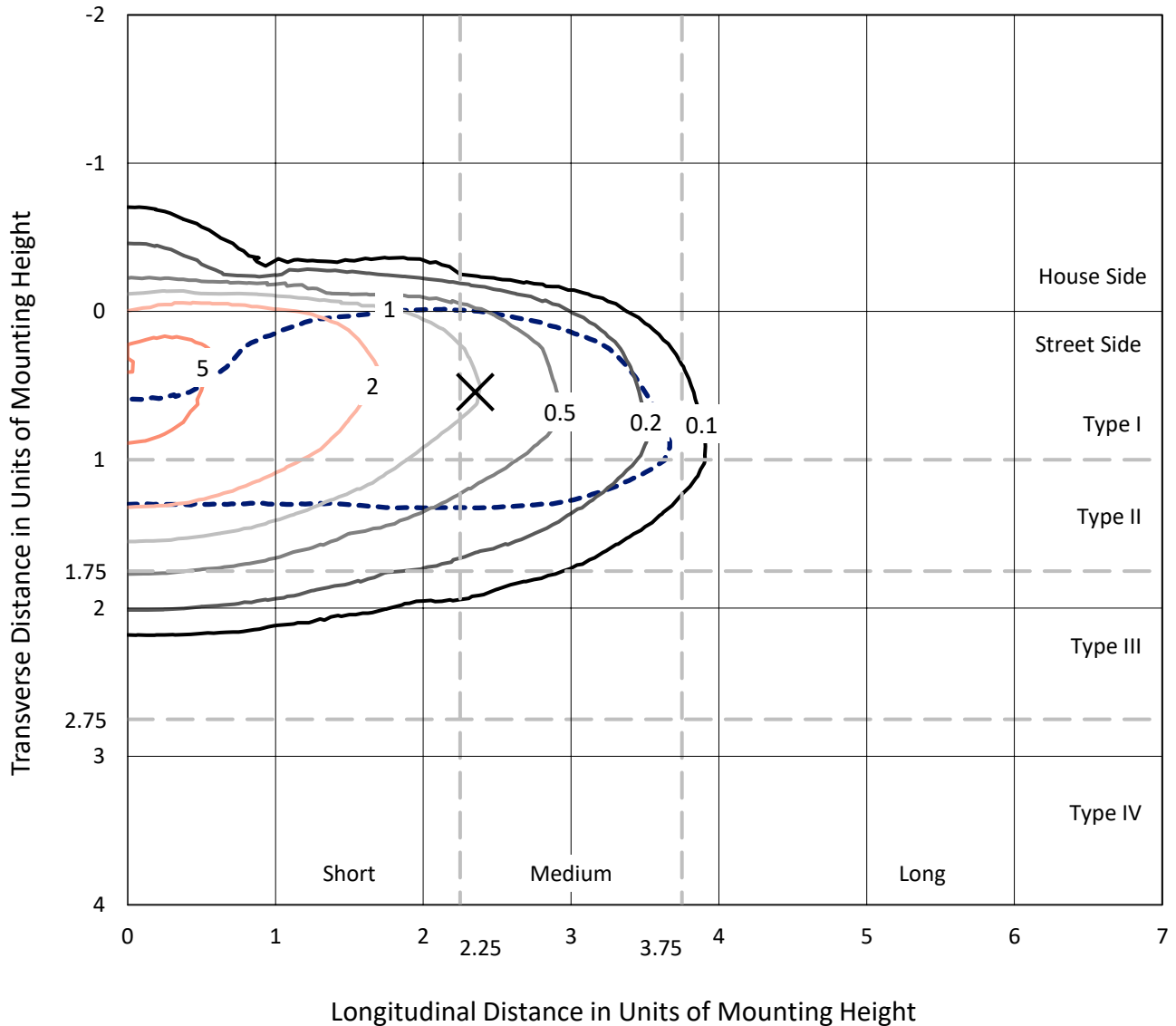
Lumens per Lamp: N/A
Luminaire Lumens: 4823.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 67
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

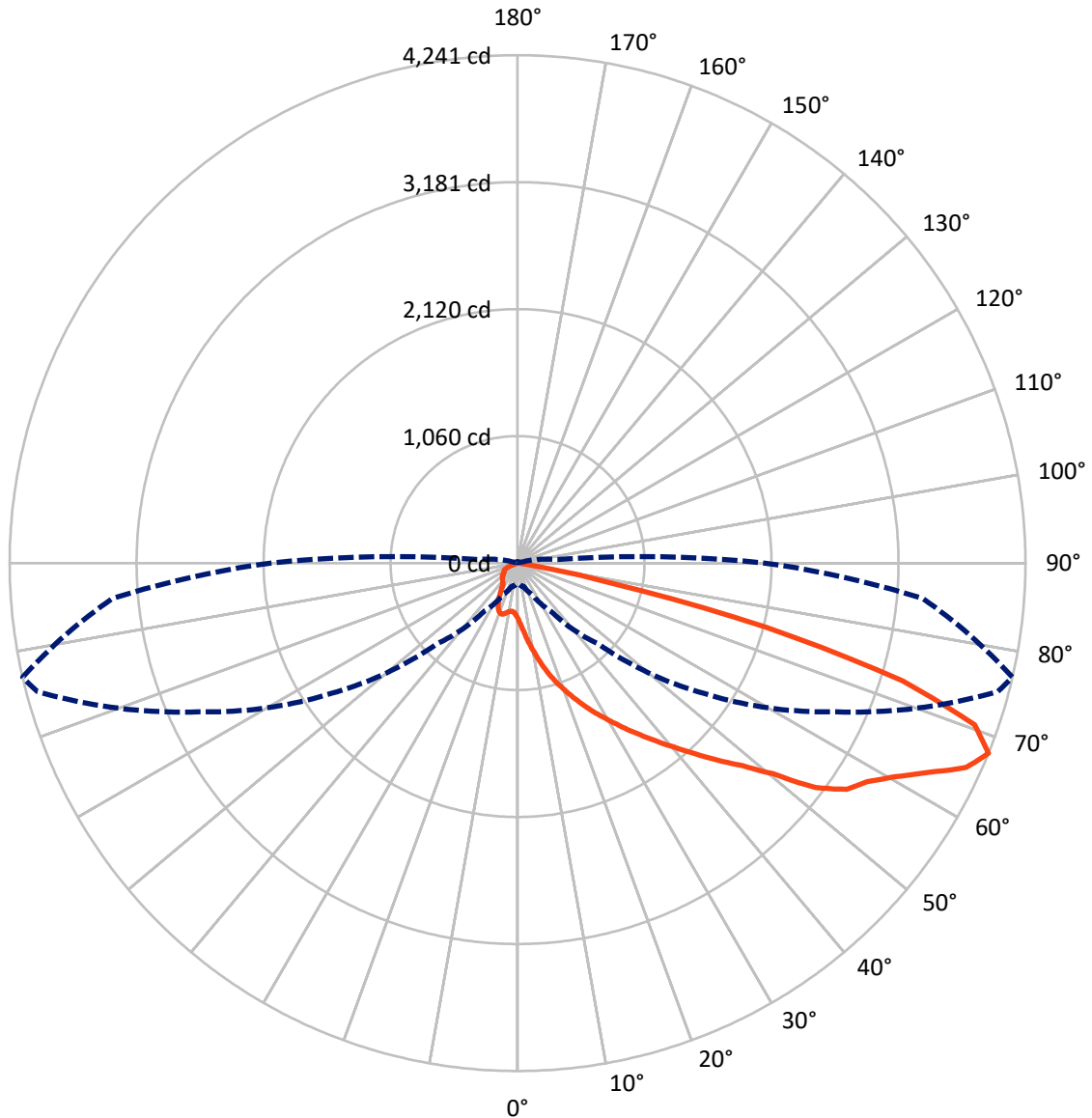
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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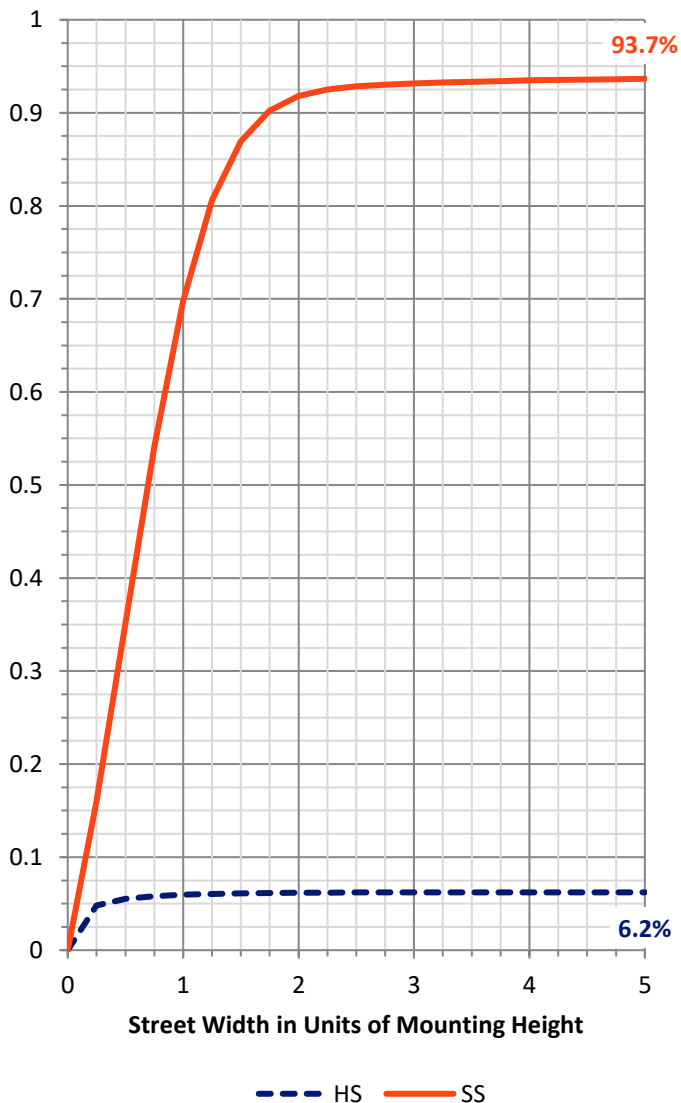
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	301.4	0.0	301.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4522.5	0.0	4522.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	4823.9	0.0	4823.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.1
10°-20°	200.8	4.2
20°-30°	392.3	8.1
30°-40°	685.9	14.2
40°-50°	1000.3	20.7
50°-60°	1169.7	24.2
60°-70°	948.2	19.7
70°-80°	356.2	7.4
80°-90°	16.2	0.3
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°	4823.9	100.0
0°-180°	4823.9	100.0



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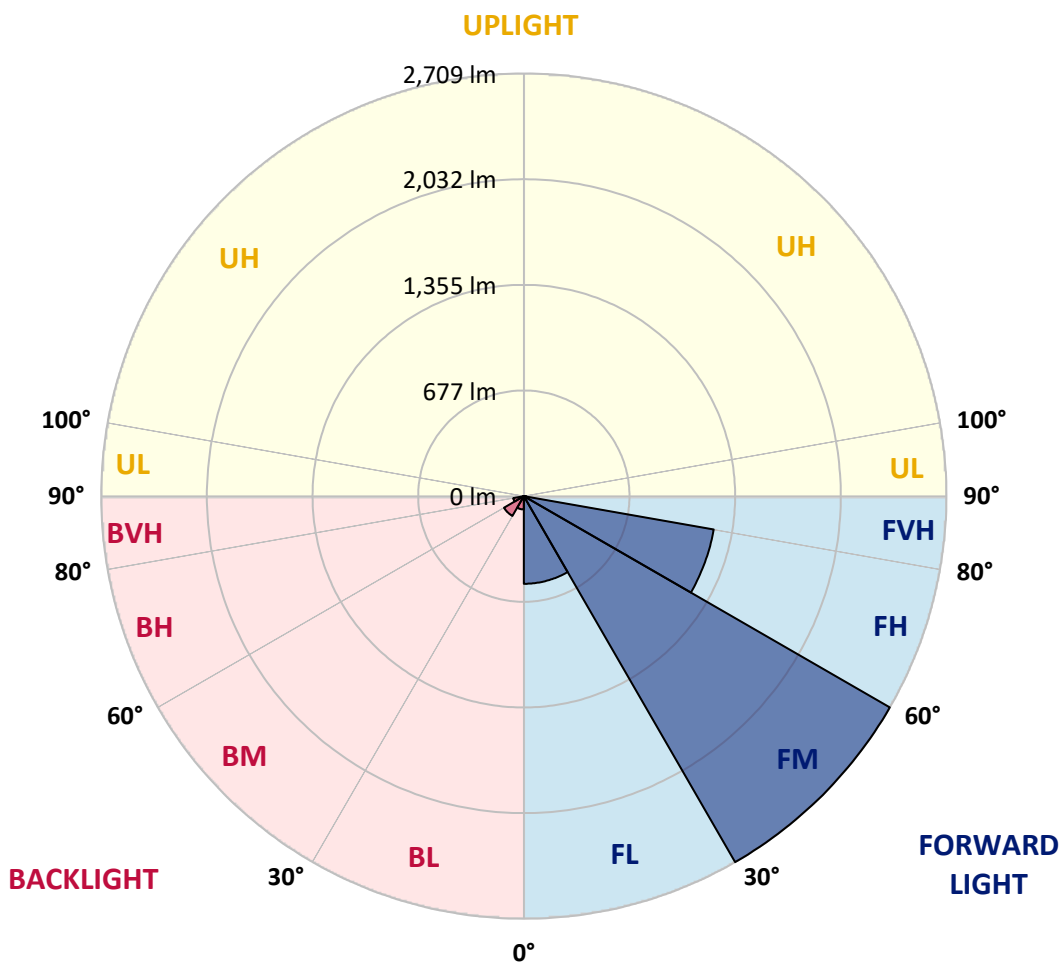
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.9	11.6			
FM (30°-60°)	2709.2	56.2			
FH (60°-80°)	1236.1	25.6			G1/1800
FVH (80°-90°)	15.3	0.3			G1/100
BL (0°-30°)	85.5	1.8	B0/110		
BM (30°-60°)	146.7	3.0	B0/220		
BH (60°-80°)	68.4	1.4	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: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	693.7	668.5	673.2	662.8	649.3	617.9	584.8	551.7	522.1	515.6	486.0
5°	888.4	880.5	872.3	865.3	837.0	797.8	738.1	662.4	594.0	582.2	520.8
7.5°	1039.5	1027.7	1035.1	1013.8	984.2	946.3	870.5	789.5	684.1	666.7	571.3
10°	1151.0	1144.4	1147.9	1137.9	1123.5	1085.6	1010.7	909.3	787.3	754.2	628.0
12.5°	1234.6	1235.9	1251.1	1252.0	1240.2	1209.3	1130.1	1024.2	881.0	851.4	690.7
15°	1295.5	1296.9	1315.6	1335.6	1349.1	1333.0	1261.1	1142.7	991.1	950.6	756.4
17.5°	1305.6	1306.4	1339.5	1380.0	1421.8	1435.8	1380.5	1260.3	1091.7	1045.6	831.8
20°	1312.1	1319.5	1349.1	1395.7	1461.9	1505.0	1475.0	1373.1	1189.3	1135.7	905.8
22.5°	1391.3	1391.3	1408.8	1441.9	1494.6	1562.1	1556.0	1476.7	1284.2	1231.1	979.4
25°	1559.4	1559.4	1542.5	1533.8	1562.1	1615.2	1630.4	1587.3	1392.7	1329.9	1056.9
27.5°	1782.0	1782.0	1755.4	1691.4	1667.0	1689.2	1705.3	1683.6	1492.8	1431.0	1138.8
30°	2012.8	2020.6	1974.5	1893.0	1807.7	1790.7	1775.0	1770.2	1599.5	1529.8	1221.9
32.5°	2244.4	2243.6	2186.1	2084.6	1973.1	1913.1	1862.1	1856.4	1712.7	1644.4	1300.8
35°	2429.5	2430.0	2369.4	2265.4	2136.5	2059.8	1977.9	1951.4	1836.8	1760.6	1394.8
37.5°	2589.8	2580.6	2515.3	2416.5	2296.3	2217.0	2115.1	2045.9	1965.3	1887.8	1488.9
40°	2681.7	2669.5	2605.9	2511.8	2420.8	2360.3	2270.6	2160.0	2106.4	2022.8	1596.0
42.5°	2695.2	2684.7	2642.5	2585.9	2511.4	2458.3	2434.3	2288.9	2254.5	2178.7	1724.1
45°	2657.3	2640.3	2626.4	2596.8	2575.8	2550.2	2582.8	2426.0	2424.3	2349.0	1850.8
47.5°	2563.2	2540.1	2543.6	2576.3	2599.8	2622.9	2724.8	2605.9	2595.4	2524.9	2017.1
50°	2402.5	2391.2	2429.5	2494.0	2587.2	2679.5	2866.3	2789.7	2831.0	2764.8	2246.6
52.5°	2075.9	2089.9	2204.4	2359.4	2520.5	2706.1	2999.1	3064.0	3169.8	3115.4	2477.4
55°	1684.0	1678.8	1831.6	2106.8	2364.2	2689.1	3057.1	3225.6	3391.9	3334.9	2605.9
57.5°	1356.5	1365.7	1468.9	1741.0	2099.0	2558.0	3070.6	3310.1	3481.2	3443.3	2724.8
60°	1018.1	1026.9	1120.9	1357.8	1746.3	2284.5	2959.1	3339.7	3648.9	3620.1	2914.6
62.5°	648.0	659.3	753.8	984.2	1334.7	1859.5	2708.7	3308.8	3823.9	3847.9	3173.8
65°	318.8	328.8	398.5	574.8	892.3	1390.5	2359.4	3190.7	4046.9	4115.3	3381.5
67.5°	176.4	181.2	205.1	292.6	497.8	953.7	1896.1	2938.6	4149.2	4240.7	3395.4
70°	137.2	138.5	147.6	170.7	242.6	559.6	1348.7	2518.8	3937.1	4047.8	3112.8
72.5°	115.4	117.1	121.5	129.3	151.5	291.3	847.4	1946.6	3312.7	3362.8	2408.2
75°	84.5	87.1	99.3	106.3	119.8	176.8	373.6	1169.7	2189.1	2139.9	1347.4
77.5°	71.0	73.2	76.2	86.2	98.9	120.6	131.1	490.3	891.0	774.7	353.6
80°	48.3	51.0	59.2	64.5	83.6	79.7	54.4	131.5	179.0	145.9	67.9
82.5°	34.4	36.6	40.9	52.7	60.5	42.2	29.6	40.1	43.1	40.9	22.2
85°	10.9	13.9	29.6	43.5	32.7	14.4	18.7	15.2	13.5	13.1	8.7
87.5°	2.2	2.2	14.8	17.4	13.1	7.4	6.5	4.8	6.1	6.1	4.8
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°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	472.1	452.5	424.2	397.6	370.6	351.4	337.9	324.4	319.2	317.0	311.4
5°	493.0	455.5	399.3	354.0	320.9	300.0	287.4	276.5	269.6	267.4	264.3
7.5°	523.0	469.0	388.4	336.2	303.1	280.4	260.0	236.5	217.7	210.3	207.3
10°	555.7	489.5	390.2	332.7	288.7	239.1	193.4	155.5	138.9	132.8	128.5
12.5°	603.6	512.1	397.6	328.8	245.6	170.7	123.7	108.0	104.1	103.2	102.3
15°	651.5	543.9	409.8	302.7	183.3	116.3	102.8	97.1	94.9	92.8	92.8
17.5°	699.8	574.4	414.6	251.7	126.7	100.6	93.6	88.8	85.4	83.6	82.3
20°	754.2	606.6	400.6	189.4	101.5	91.9	84.0	78.4	75.3	73.6	72.3
22.5°	813.0	638.4	370.2	131.9	92.3	82.7	75.3	69.7	66.6	64.9	64.5
25°	868.3	665.8	321.4	99.3	83.2	74.0	67.1	62.3	60.1	58.4	57.9
27.5°	925.4	689.4	257.8	87.5	75.8	67.1	60.1	56.2	54.0	52.7	52.3
30°	981.1	705.5	192.0	80.1	69.2	60.5	54.4	51.4	49.2	47.9	47.5
32.5°	1038.6	714.6	129.8	73.6	62.7	54.9	49.6	46.6	45.3	44.0	44.0
35°	1093.9	713.3	93.6	67.5	57.5	49.6	44.9	42.7	42.2	40.9	40.9
37.5°	1154.5	704.2	79.7	61.8	51.8	44.9	40.9	39.6	39.2	38.3	37.9
40°	1223.3	683.7	72.7	57.5	47.0	40.9	37.5	36.6	36.1	35.3	35.3
42.5°	1298.6	657.1	68.8	52.7	43.1	37.0	34.4	33.1	32.7	31.8	31.8
45°	1386.1	631.9	66.2	47.9	39.6	34.0	31.4	30.0	29.6	28.7	28.7
47.5°	1505.4	617.5	61.8	43.5	35.7	30.9	28.3	27.4	26.6	25.7	25.7
50°	1669.6	600.5	56.2	39.2	32.7	27.9	26.1	24.8	24.4	23.5	23.5
52.5°	1804.6	564.4	50.5	34.8	29.2	25.7	24.0	23.1	22.2	21.8	21.8
55°	1852.1	522.1	44.9	31.4	26.6	24.0	22.2	21.3	20.9	20.5	20.5
57.5°	1927.9	508.6	39.6	27.9	24.0	22.2	20.5	20.0	19.6	19.2	18.7
60°	2057.2	516.5	34.8	24.8	21.8	20.0	18.7	18.3	17.4	16.5	16.5
62.5°	2182.6	506.9	29.6	21.8	18.7	17.9	16.5	15.7	13.9	12.6	11.8
65°	2213.1	442.9	25.7	18.3	15.7	14.8	13.5	11.8	9.1	7.4	7.4
67.5°	2065.5	336.6	22.2	15.7	13.1	12.2	9.6	7.8	5.7	4.4	4.4
70°	1704.5	213.4	18.3	12.2	10.9	8.3	6.1	5.7	3.9	3.5	3.0
72.5°	1229.8	116.7	15.2	10.0	7.8	5.2	4.4	3.5	2.6	1.7	1.7
75°	622.7	54.9	11.3	7.8	5.2	3.5	2.6	1.7	1.7	1.3	1.3
77.5°	176.4	25.3	7.4	5.2	3.5	2.2	1.7	1.3	1.3	0.9	0.9
80°	34.8	12.6	4.8	3.5	2.6	1.7	1.3	0.9	0.9	0.4	0.4
82.5°	12.6	6.5	3.5	2.6	2.2	1.7	0.9	0.4	0.4	0.0	0.0
85°	6.5	3.5	2.6	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	3.5	2.6	2.2	2.2	1.7	1.3	0.9	0.4	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)