

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: P672163

Luminaire Tested: **CCP-SA-2D-830-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-830-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

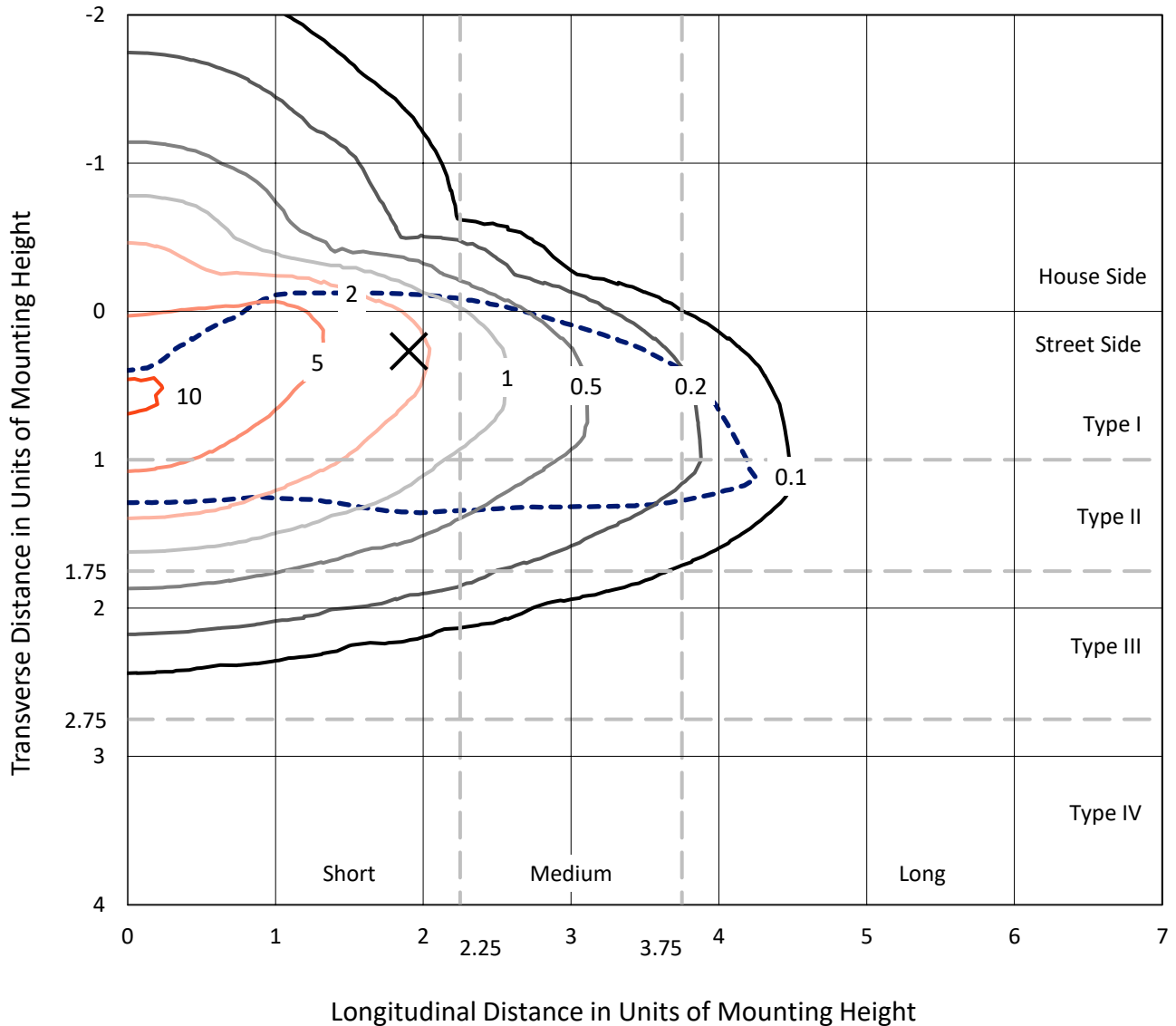
Lumens per Lamp: N/A
Luminaire Lumens: 9001.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

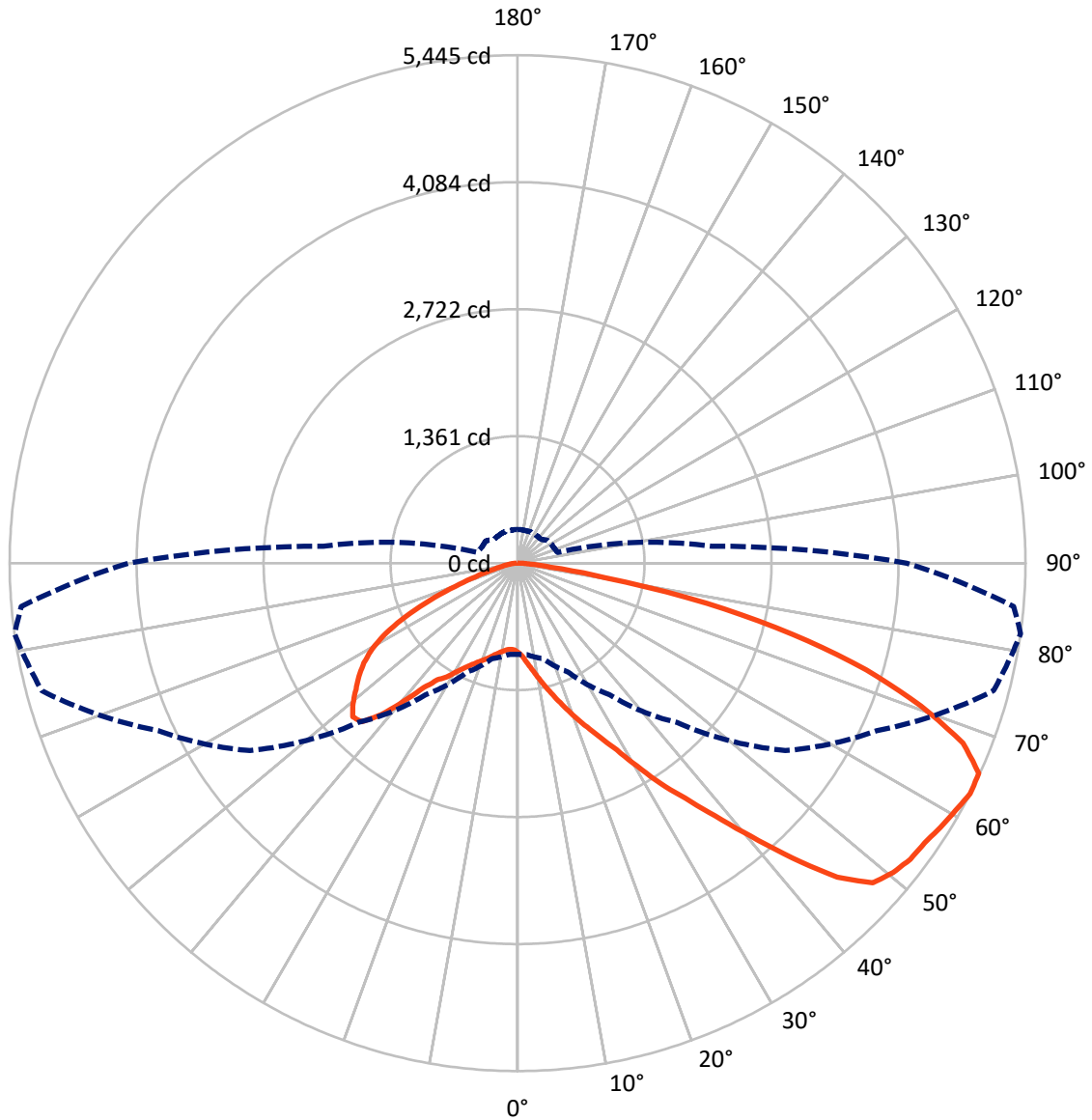
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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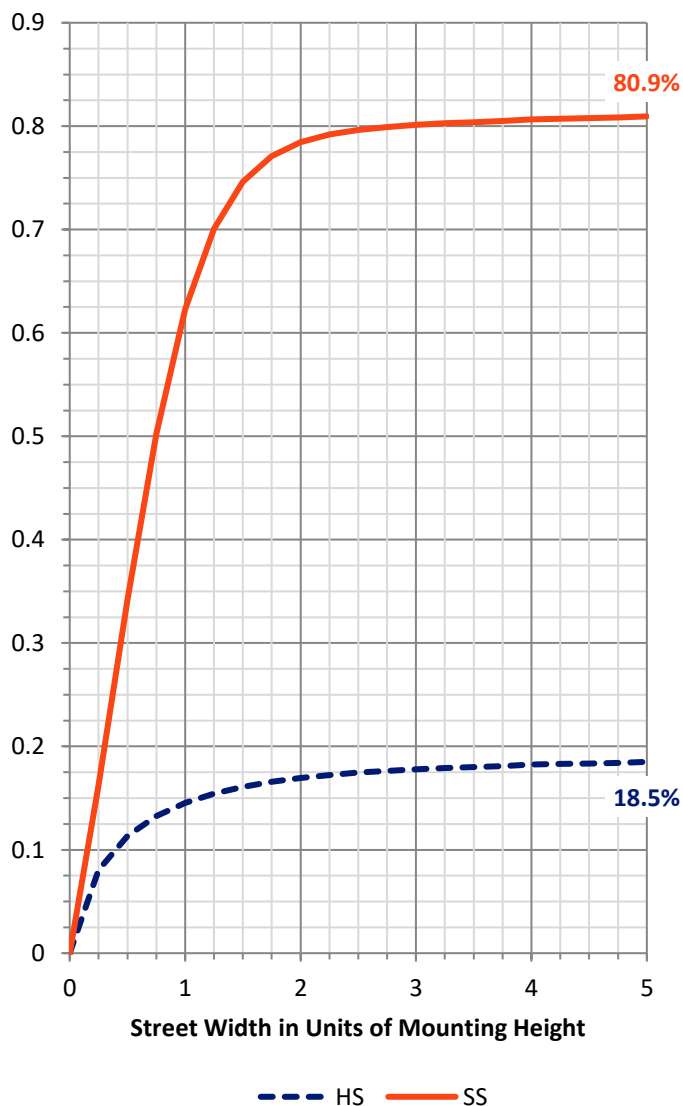
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.9	0.0	1695.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7305.8	0.0	7305.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	9001.7	0.0	9001.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.2
10°-20°	399.5	4.4
20°-30°	827.4	9.2
30°-40°	1404.4	15.6
40°-50°	1912.4	21.2
50°-60°	1935.8	21.5
60°-70°	1525.6	16.9
70°-80°	751.5	8.3
80°-90°	139.0	1.5
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°	9001.7	100.0
0°-180°	9001.7	100.0



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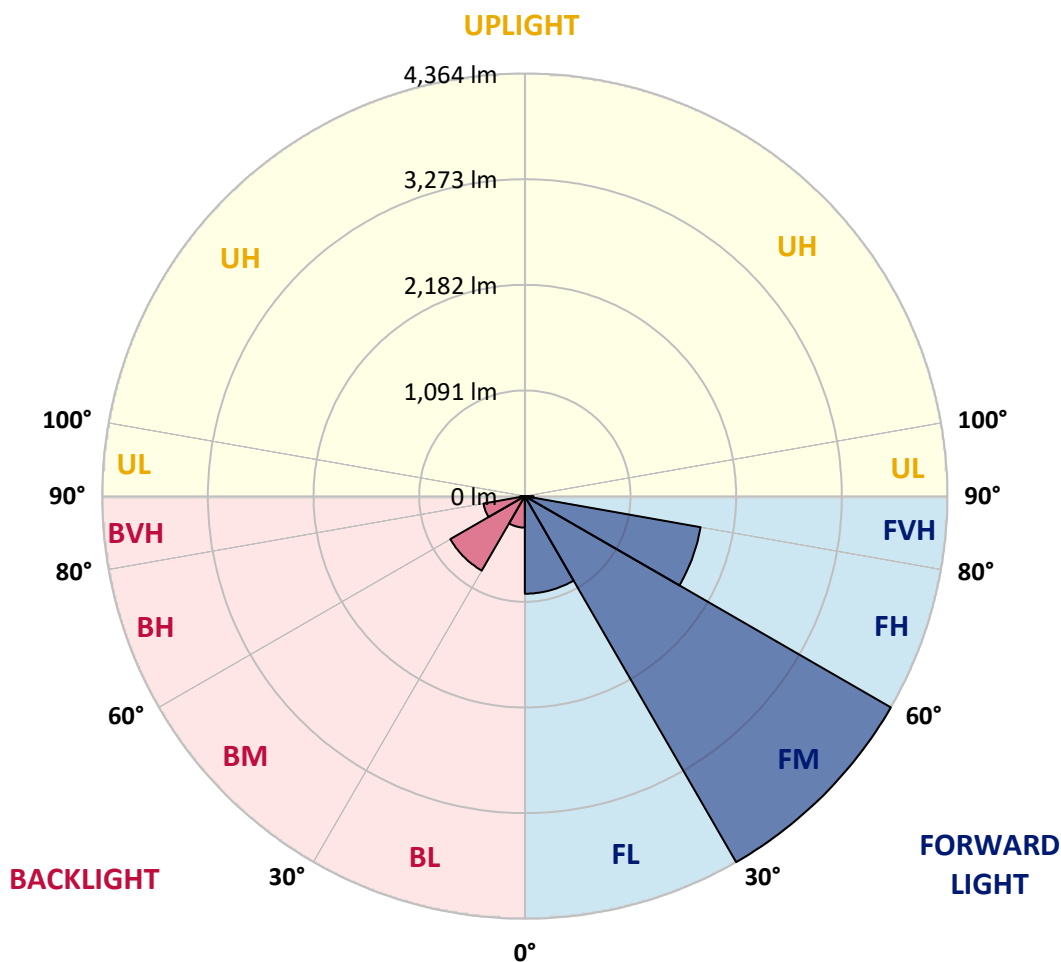
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.5	11.2			
FM (30°-60°)	4364.3	48.5			
FH (60°-80°)	1843.7	20.5			G2/5000
FVH (80°-90°)	90.3	1.0			G1/100
BL (0°-30°)	325.4	3.6	B1/500		
BM (30°-60°)	888.3	9.9	B1/1000		
BH (60°-80°)	433.5	4.8	B1/500		G1/500
BVH (80°-90°)	48.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3
2.5°	1274.8	1255.4	1245.0	1233.4	1201.0	1180.2	1141.3	1096.0	1043.5	998.7	990.3
5°	1543.8	1524.4	1527.0	1498.4	1451.1	1407.1	1334.5	1248.9	1149.1	1072.6	1046.1
7.5°	1733.7	1712.3	1717.5	1705.8	1667.6	1619.0	1527.0	1416.8	1271.0	1157.5	1114.8
10°	1860.7	1863.3	1867.2	1862.7	1838.1	1803.7	1712.3	1590.5	1409.0	1258.0	1199.7
12.5°	2004.6	2011.8	2010.5	2012.4	1999.4	1972.2	1882.8	1768.1	1556.1	1366.2	1290.4
15°	2188.0	2180.9	2186.7	2195.2	2180.9	2151.1	2072.0	1935.9	1710.4	1486.8	1392.8
17.5°	2389.0	2374.1	2389.6	2381.2	2370.8	2351.4	2264.5	2119.3	1869.8	1617.1	1506.9
20°	2562.7	2552.9	2561.4	2562.7	2564.6	2560.7	2471.3	2317.0	2037.0	1759.0	1630.0
22.5°	2757.7	2753.2	2751.9	2752.6	2754.5	2759.0	2698.1	2533.5	2222.4	1908.1	1762.9
25°	3030.6	3026.1	2996.2	2963.2	2943.7	2958.0	2926.2	2779.1	2427.2	2075.3	1908.7
27.5°	3336.5	3329.4	3289.8	3206.2	3144.0	3154.4	3151.1	3050.0	2663.1	2267.1	2083.7
30°	3654.1	3636.6	3582.1	3464.8	3367.0	3348.8	3357.9	3324.2	2959.9	2521.8	2327.4
32.5°	3937.3	3904.9	3833.0	3714.4	3597.7	3545.2	3546.5	3561.4	3282.7	2818.7	2582.7
35°	4110.4	4089.0	4035.2	3915.3	3785.0	3750.0	3740.3	3814.8	3578.9	3093.5	2811.5
37.5°	4203.7	4182.9	4125.3	4028.7	3930.2	3915.9	3934.1	4049.4	3915.3	3436.3	3122.6
40°	4186.8	4164.8	4127.2	4059.8	3995.0	4006.0	4086.4	4264.6	4282.8	3846.6	3565.9
42.5°	4048.1	4024.8	4021.6	4017.0	3986.6	4035.2	4180.4	4422.1	4620.4	4320.3	4102.6
45°	3803.1	3788.9	3805.7	3883.5	3921.8	4015.7	4224.4	4498.6	4917.3	4801.9	4610.1
47.5°	3492.7	3484.3	3522.5	3645.7	3769.4	3956.1	4253.6	4519.3	5121.4	5121.4	4942.5
50°	3145.3	3142.1	3192.6	3371.5	3565.3	3846.6	4250.4	4538.8	5210.9	5215.4	5059.8
52.5°	2660.5	2677.4	2812.2	3048.1	3311.2	3674.8	4205.0	4593.2	5261.4	5271.8	5138.3
55°	2101.8	2118.0	2321.6	2639.1	2976.2	3466.1	4069.5	4577.0	5271.1	5294.5	5183.0
57.5°	1678.0	1681.2	1808.2	2185.5	2602.8	3199.1	3913.3	4469.4	5242.6	5344.4	5251.7
60°	1313.1	1323.5	1408.4	1707.1	2169.9	2855.0	3739.0	4363.1	5258.8	5391.7	5313.9
62.5°	978.0	980.6	1059.7	1291.0	1724.0	2416.2	3502.4	4249.7	5281.5	5444.8	5339.2
65°	637.1	636.5	712.9	921.6	1287.8	1942.4	3131.1	4072.1	5283.4	5433.2	5223.2
67.5°	405.1	407.7	440.7	572.3	862.0	1466.0	2625.5	3742.2	5191.4	5150.6	4800.6
70°	328.6	329.2	339.6	374.0	525.0	1002.0	1973.5	3226.3	4900.4	4587.4	4172.6
72.5°	292.9	293.6	298.8	302.7	350.0	602.1	1294.9	2619.7	4383.2	3910.1	3461.6
75°	263.1	263.1	266.4	262.5	287.1	377.9	735.0	1969.6	3610.0	3044.9	2615.2
77.5°	230.7	230.1	230.1	228.1	248.2	276.1	368.1	1374.7	2600.2	2076.6	1696.1
80°	195.7	194.4	196.4	195.1	214.5	209.3	214.5	848.4	1409.7	952.1	722.0
82.5°	152.3	152.3	158.1	159.4	176.9	151.7	151.0	402.5	535.3	355.8	266.4
85°	79.7	89.4	120.5	125.7	133.5	95.3	110.8	188.0	214.5	136.1	97.2
87.5°	24.0	25.3	73.9	83.0	82.3	48.0	68.1	90.7	100.5	60.3	39.5
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°	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3
2.5°	968.9	946.3	898.3	855.5	823.1	792.0	770.6	759.6	745.3	747.3	742.7
5°	998.7	952.1	867.2	798.5	752.5	717.5	696.1	685.1	674.7	669.5	673.4
7.5°	1043.5	970.9	852.3	769.3	721.4	691.5	679.9	676.6	674.0	672.1	675.3
10°	1101.2	1003.9	849.7	758.9	714.9	696.7	692.2	690.2	687.7	685.1	687.0
12.5°	1160.1	1040.2	858.8	761.5	725.2	711.6	705.8	703.2	696.7	693.5	694.1
15°	1234.0	1084.3	871.1	771.9	738.9	721.4	713.6	706.4	696.1	691.5	693.5
17.5°	1313.1	1136.8	887.9	781.6	744.0	722.7	707.1	696.7	686.4	679.9	680.5
20°	1402.5	1188.6	902.8	784.9	741.4	711.6	692.8	680.5	666.9	659.8	657.8
22.5°	1495.2	1243.1	914.5	782.3	727.2	692.8	671.4	656.5	640.3	629.3	630.0
25°	1608.0	1317.0	924.2	773.2	708.4	668.2	644.2	625.4	608.6	598.2	598.9
27.5°	1743.4	1400.6	935.9	758.9	685.7	641.6	613.8	595.0	578.8	569.0	567.8
30°	1924.3	1509.5	948.8	741.4	657.2	612.5	585.2	565.8	550.3	541.2	541.2
32.5°	2127.8	1642.3	957.9	720.7	625.4	581.4	556.7	541.2	529.5	517.2	515.9
35°	2304.7	1745.4	985.8	704.5	597.6	552.2	535.3	524.3	506.8	495.2	493.2
37.5°	2564.6	1926.9	1068.1	700.0	563.9	529.5	526.3	505.5	485.4	463.4	461.5
40°	2983.3	2241.2	1164.0	677.9	528.9	517.2	514.0	486.1	438.8	425.2	422.6
42.5°	3516.0	2619.7	1174.4	613.8	504.2	506.8	497.1	442.7	421.9	411.6	409.0
45°	3996.9	2926.9	1115.4	548.3	486.1	491.3	471.2	426.5	414.8	405.1	402.5
47.5°	4267.2	3021.5	1003.9	499.1	472.5	477.7	429.7	418.7	407.0	397.3	394.7
50°	4343.0	2939.2	874.3	470.5	462.1	464.1	418.7	412.2	401.8	394.1	390.2
52.5°	4357.9	2816.1	754.4	453.7	454.3	436.8	409.0	403.8	397.3	385.0	380.4
55°	4364.4	2705.2	646.8	443.3	449.1	401.8	398.6	394.7	389.5	376.6	374.0
57.5°	4381.3	2563.3	562.6	435.5	442.7	385.6	386.9	384.3	377.9	372.0	370.7
60°	4333.3	2366.9	497.8	427.8	433.6	372.0	373.3	374.6	368.8	367.5	366.8
62.5°	4172.6	2088.2	442.7	417.4	414.8	358.4	358.4	363.6	358.4	360.4	360.4
65°	3841.4	1733.1	393.4	397.9	385.6	343.5	342.9	351.9	344.2	352.6	353.2
67.5°	3276.9	1311.8	342.9	367.5	355.2	327.9	330.5	337.7	327.3	344.8	344.8
70°	2593.8	892.5	290.4	324.7	324.1	310.4	318.9	318.2	306.6	332.5	327.9
72.5°	1932.0	572.9	236.6	272.2	283.2	291.7	307.2	293.6	282.6	297.5	283.9
75°	1350.0	359.1	186.7	215.2	235.9	270.9	292.9	265.7	249.5	245.0	241.1
77.5°	808.2	229.4	147.1	164.0	184.1	246.3	274.8	236.6	211.9	209.3	201.6
80°	372.7	149.7	112.1	122.5	130.9	211.3	250.2	202.2	172.4	169.8	160.7
82.5°	168.5	98.5	83.6	87.5	88.1	167.9	211.3	160.1	131.6	213.2	184.7
85°	78.4	63.5	54.4	51.8	52.5	112.1	153.6	110.2	149.7	116.7	88.8
87.5°	33.7	32.4	27.9	22.0	20.1	24.0	59.0	46.0	65.5	25.9	17.5
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)