

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: P672222

Luminaire Tested: **CCP-SA-1B-727-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672222  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-727-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

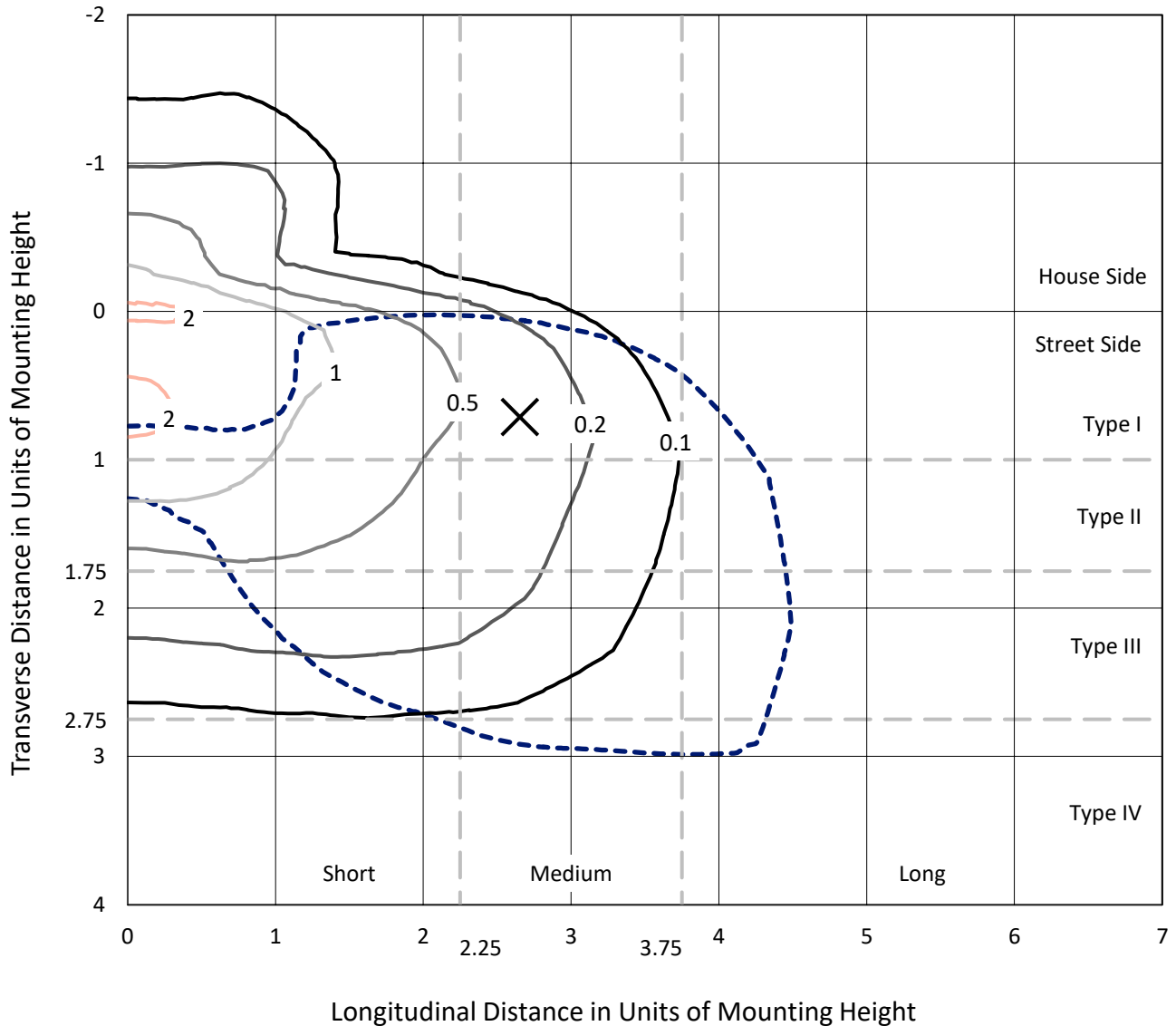
Lumens per Lamp: N/A  
Luminaire Lumens: 2935.5 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

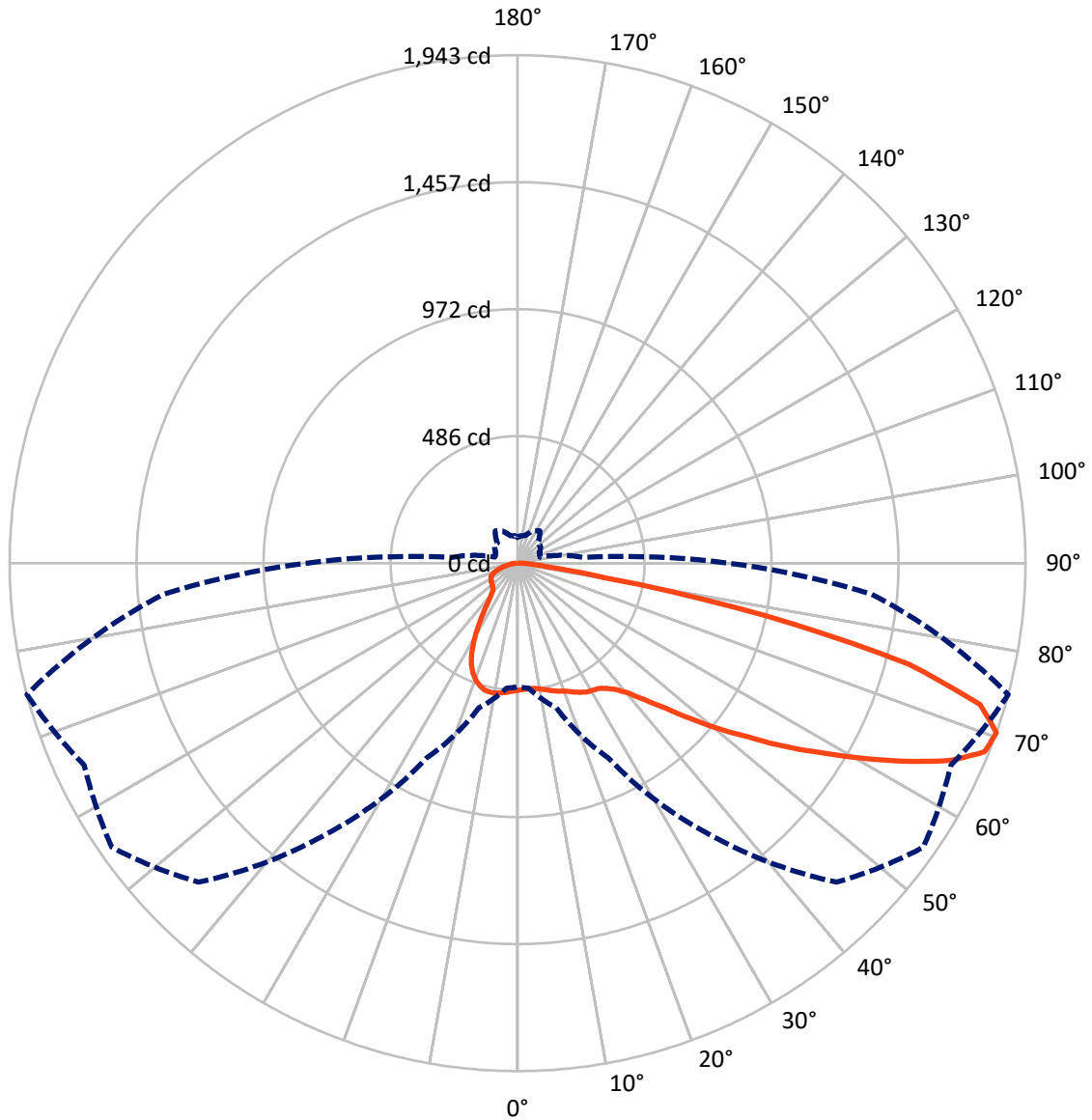
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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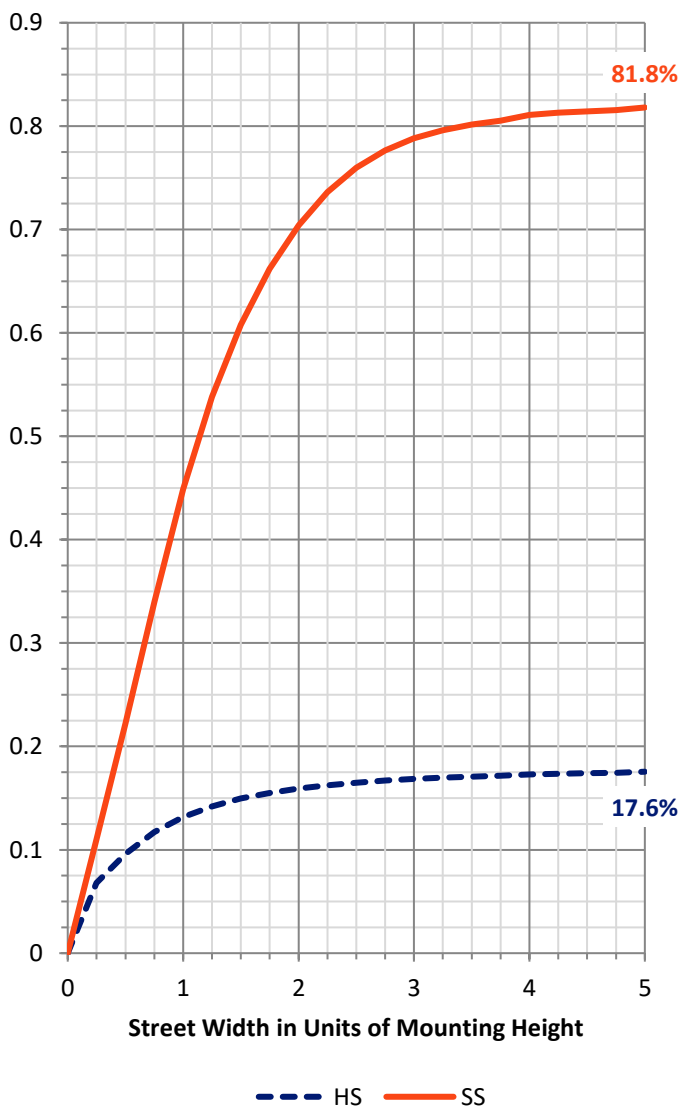
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	522.3	0.0	522.3
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	2413.3	0.0	2413.3
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2935.5	0.0	2935.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	1.5
10°-20°	116.6	4.0
20°-30°	196.4	6.7
30°-40°	298.3	10.2
40°-50°	427.4	14.6
50°-60°	566.6	19.3
60°-70°	709.1	24.2
70°-80°	517.8	17.6
80°-90°	59.7	2.0
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°	2935.5	100.0
0°-180°	2935.5	100.0



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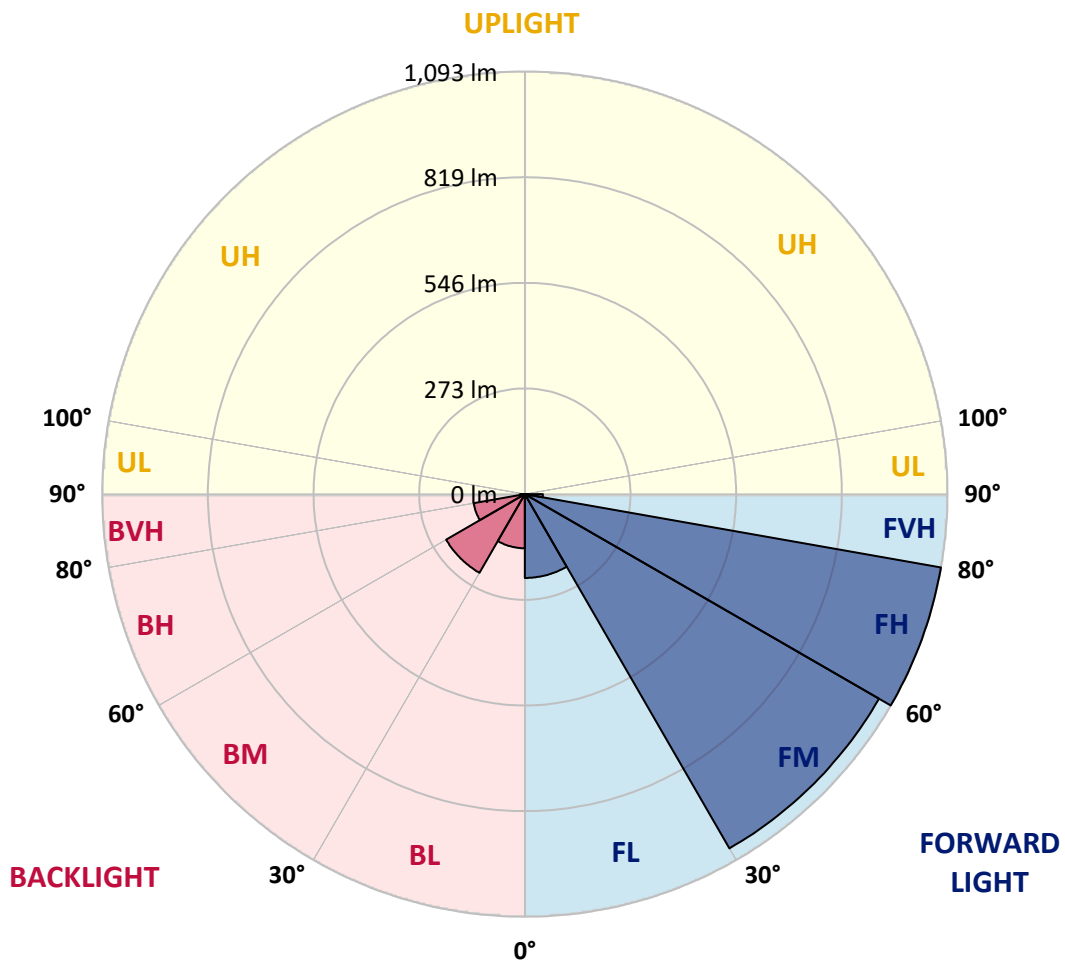
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.7	7.4			
FM (30°-60°)	1057.5	36.0			
FH (60°-80°)	1092.5	37.2			G1/1800
FVH (80°-90°)	46.6	1.6			G1/100
BL (0°-30°)	140.0	4.8	B1/500		
BM (30°-60°)	234.8	8.0	B1/1000		
BH (60°-80°)	134.3	4.6	B1/500		G1/500
BVH (80°-90°)	13.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	459.6	462.2	464.5	466.8	468.7	473.8	474.9	480.3	481.8	483.1	484.8
5°	433.9	435.8	438.1	441.9	445.9	455.0	461.3	473.4	480.1	482.2	488.2
7.5°	419.9	420.6	423.7	426.9	431.5	440.4	449.1	467.9	481.4	483.7	496.4
10°	409.8	410.6	413.6	418.0	422.7	430.9	441.7	464.1	486.0	489.6	507.6
12.5°	406.2	405.8	409.2	412.1	418.7	429.0	440.2	464.3	492.4	497.5	523.9
15°	420.6	417.8	419.9	418.9	421.0	431.1	444.4	468.9	500.2	506.5	540.8
17.5°	452.2	449.9	448.4	439.4	433.5	439.2	451.8	475.5	508.4	515.2	556.0
20°	499.6	493.0	487.5	472.3	455.8	453.9	462.8	482.0	516.3	522.8	572.0
22.5°	553.4	548.1	539.3	512.7	487.1	474.4	476.8	494.1	527.7	534.8	590.4
25°	621.4	621.2	603.1	567.2	528.5	502.9	498.1	513.3	540.5	547.5	605.6
27.5°	699.0	693.7	672.1	625.9	577.3	538.2	526.8	532.9	550.9	558.1	617.9
30°	765.3	765.9	744.0	693.5	629.3	572.7	551.1	547.1	557.7	564.8	629.3
32.5°	836.3	832.7	812.6	760.7	685.5	609.6	566.7	557.2	564.6	571.4	645.1
35°	903.0	899.0	881.7	825.7	747.3	650.4	587.9	573.1	581.1	588.5	664.5
37.5°	966.6	967.2	947.6	894.1	807.3	698.5	619.1	596.9	605.6	613.8	694.1
40°	1022.2	1019.0	1003.8	955.6	869.6	747.6	654.4	629.5	646.4	654.0	731.5
42.5°	1039.9	1039.7	1045.6	1016.0	935.1	805.9	698.3	680.2	704.0	715.4	777.3
45°	1024.5	1029.1	1063.3	1062.5	1000.6	872.8	758.3	741.9	776.3	789.2	833.3
47.5°	1009.3	1016.2	1062.7	1089.1	1059.3	946.5	832.0	819.8	869.2	887.8	891.4
50°	987.1	993.6	1049.0	1092.9	1095.2	1021.1	927.5	912.1	975.7	994.7	954.6
52.5°	962.4	967.4	1024.7	1090.2	1112.4	1079.4	1021.1	1016.7	1089.8	1105.2	1018.8
55°	825.9	847.5	989.0	1084.3	1124.2	1124.0	1112.1	1126.7	1214.2	1237.2	1090.4
57.5°	747.6	759.0	888.4	1080.9	1146.4	1165.2	1206.1	1237.4	1347.0	1367.7	1169.4
60°	722.0	732.1	838.0	1076.9	1190.5	1229.6	1298.0	1348.7	1489.8	1515.2	1257.7
62.5°	698.8	711.0	817.5	1045.0	1244.0	1331.6	1407.7	1469.1	1640.4	1670.4	1345.6
65°	651.4	660.1	779.9	1018.1	1294.6	1477.2	1565.9	1601.8	1786.4	1820.2	1403.9
67.5°	569.7	577.9	695.2	956.5	1327.6	1628.6	1738.9	1739.1	1899.2	1926.9	1416.1
70°	473.6	479.9	573.1	822.1	1258.9	1725.8	1895.0	1828.9	1931.1	1943.1	1357.8
72.5°	338.6	344.1	419.7	607.7	1032.3	1647.0	1930.5	1825.1	1853.8	1850.0	1192.0
75°	208.7	219.3	257.1	370.9	641.5	1295.9	1737.4	1653.7	1556.6	1546.0	897.5
77.5°	136.0	141.5	173.8	218.8	283.1	744.0	1319.6	1239.9	982.9	970.6	482.5
80°	81.7	90.8	113.9	137.5	128.2	284.5	753.5	616.0	347.3	343.5	148.3
82.5°	43.9	52.2	80.3	85.1	72.0	100.5	272.9	200.2	111.1	109.8	55.6
85°	34.9	38.9	57.7	53.9	40.8	50.9	106.5	83.4	57.0	55.8	20.9
87.5°	21.1	26.6	43.7	36.3	20.3	18.4	48.8	39.5	26.8	24.9	8.2
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°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	487.9	489.0	490.1	487.9	488.8	487.7	487.7	487.7	485.0	484.1	486.7
5°	492.6	494.1	494.9	488.4	484.4	478.4	473.6	466.2	462.0	459.2	459.2
7.5°	502.1	503.8	500.0	485.4	471.3	455.4	439.2	425.6	415.9	411.7	413.0
10°	516.0	516.7	504.0	477.2	447.0	417.6	394.6	376.6	364.6	358.5	357.6
12.5°	532.3	529.6	504.8	459.0	414.2	374.7	346.6	323.4	308.0	302.1	299.1
15°	548.4	541.8	501.7	437.3	377.1	329.5	293.6	271.6	262.1	259.4	258.3
17.5°	562.7	550.5	491.1	406.0	334.0	276.7	250.3	242.5	243.6	246.1	247.1
20°	575.8	557.0	475.9	368.8	280.1	235.5	229.0	236.2	242.1	245.9	246.5
22.5°	590.2	563.4	454.8	323.6	235.9	216.5	224.3	232.6	238.5	242.3	242.9
25°	601.2	563.1	425.0	270.0	208.1	211.4	220.7	228.1	232.6	235.3	235.1
27.5°	608.1	558.1	385.9	225.8	197.1	207.9	216.7	221.6	224.1	226.2	226.0
30°	610.3	548.4	336.7	193.3	192.0	204.5	211.2	214.2	216.1	218.2	218.2
32.5°	614.5	533.4	282.4	175.1	188.2	201.1	205.1	207.4	206.0	200.7	199.6
35°	619.1	516.7	231.1	166.7	184.6	198.8	202.6	196.4	180.4	178.3	177.4
37.5°	628.2	501.3	187.6	160.7	183.8	200.0	203.2	178.7	165.2	158.6	157.6
40°	643.6	485.8	158.4	156.5	184.8	205.5	194.8	170.3	147.9	135.4	133.3
42.5°	663.9	467.0	141.9	154.4	187.8	214.4	191.8	158.2	133.7	125.3	124.0
45°	687.4	442.1	134.1	154.0	191.4	218.8	192.6	148.5	127.4	120.8	120.4
47.5°	711.6	417.6	130.8	153.6	195.8	216.9	181.0	145.5	124.8	122.9	124.2
50°	737.8	389.7	128.0	152.5	199.4	216.9	174.7	144.9	125.7	129.9	134.1
52.5°	762.3	366.3	124.8	149.3	200.9	213.1	172.8	147.2	127.0	125.9	127.2
55°	792.1	354.2	123.1	144.9	198.1	201.5	170.5	153.6	128.0	119.3	119.3
57.5°	826.1	351.7	120.6	139.0	189.3	185.5	170.3	157.4	125.3	117.2	115.8
60°	867.1	357.2	117.4	131.6	178.5	173.0	168.8	157.4	120.8	113.6	114.3
62.5°	900.3	356.6	115.5	125.0	164.1	160.1	166.0	155.3	119.1	113.2	113.0
65°	908.1	343.0	110.1	116.6	146.4	144.5	163.1	150.0	116.8	110.9	109.2
67.5°	881.7	312.4	101.8	105.4	127.6	127.8	157.8	143.0	113.6	109.6	106.9
70°	806.7	252.6	89.6	91.9	107.3	110.1	150.0	134.8	108.4	104.1	97.6
72.5°	675.1	181.7	75.4	76.0	85.3	92.5	136.5	123.6	100.5	90.6	83.6
75°	499.8	120.6	61.5	60.6	64.0	75.2	116.6	111.1	90.4	75.2	71.6
77.5°	264.3	71.4	47.3	47.5	45.4	57.7	92.5	96.5	80.3	63.4	59.8
80°	90.4	42.9	34.0	35.5	32.1	41.2	68.7	80.3	68.7	52.8	46.7
82.5°	41.4	26.2	24.3	25.3	23.0	27.9	47.1	60.8	54.7	38.4	31.1
85°	20.9	15.6	15.6	17.1	15.2	14.4	26.0	40.3	40.1	26.4	22.8
87.5°	8.7	7.6	7.2	8.2	7.2	5.5	7.4	14.6	21.1	15.8	10.1
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)