

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: P676918

Luminaire Tested: **CCW-SA-1C-840-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676918  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

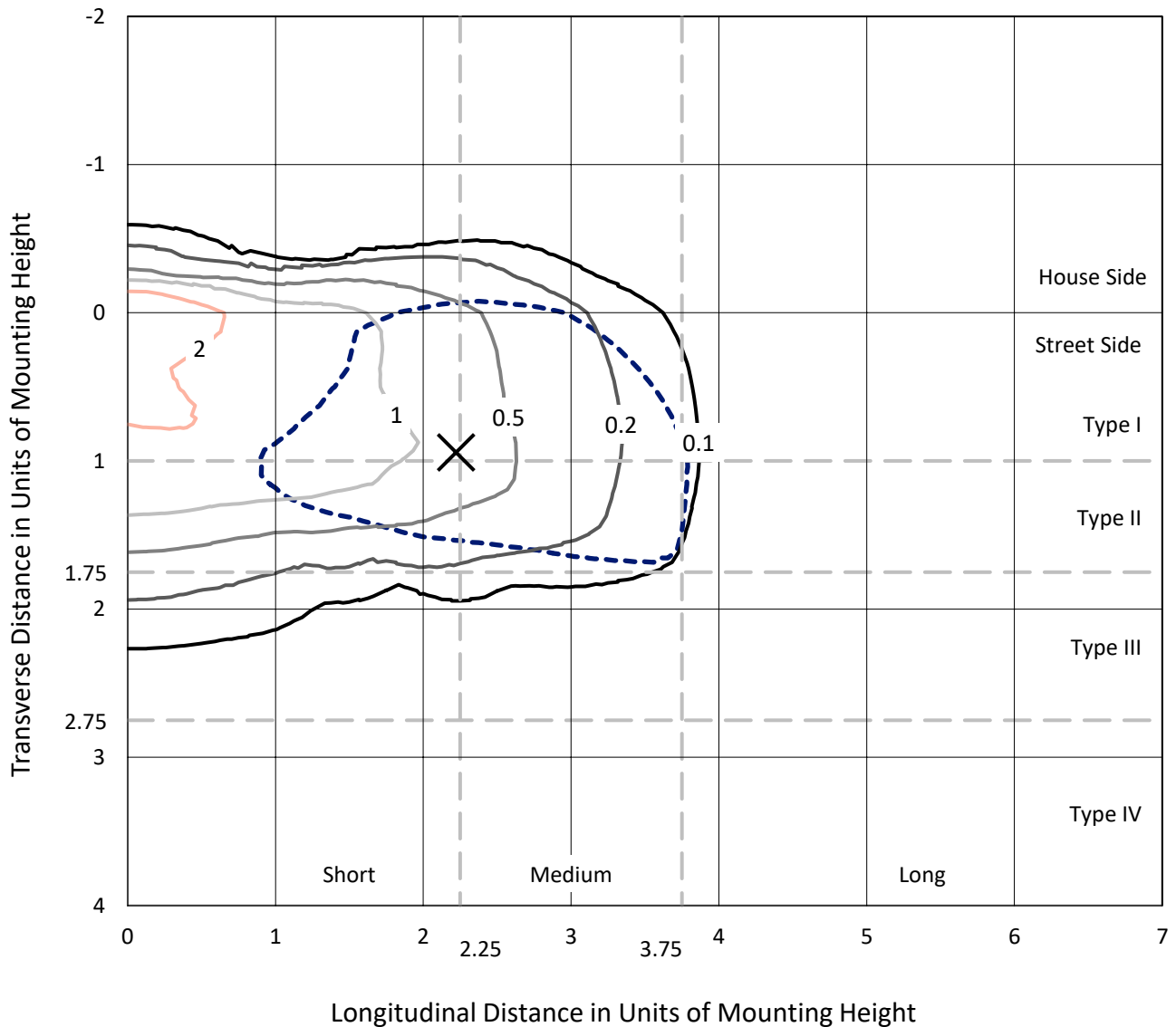
Lumens per Lamp: N/A  
Luminaire Lumens: 3099.9 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P676918  
 CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

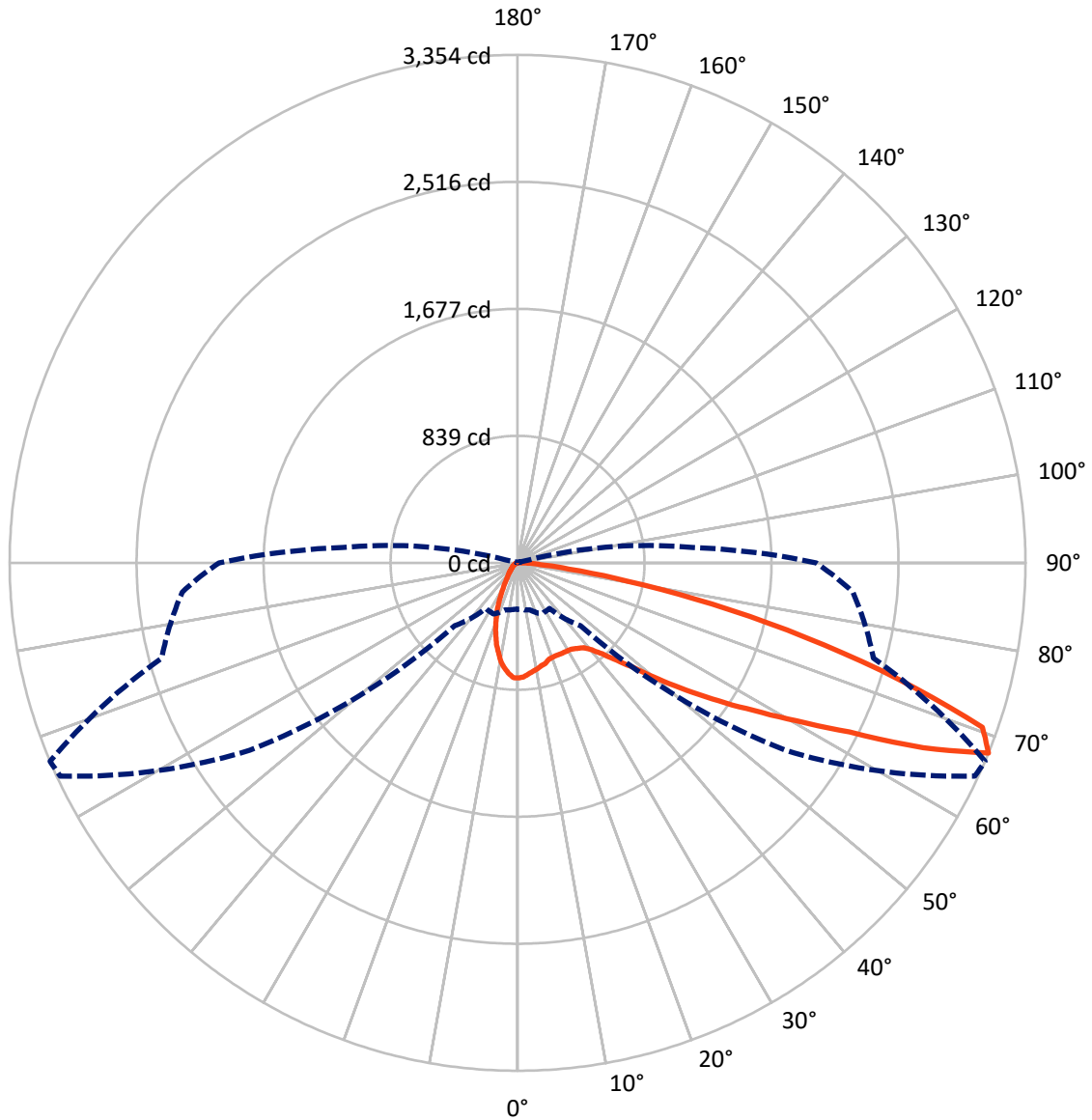
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P676918  
CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676918  
 CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

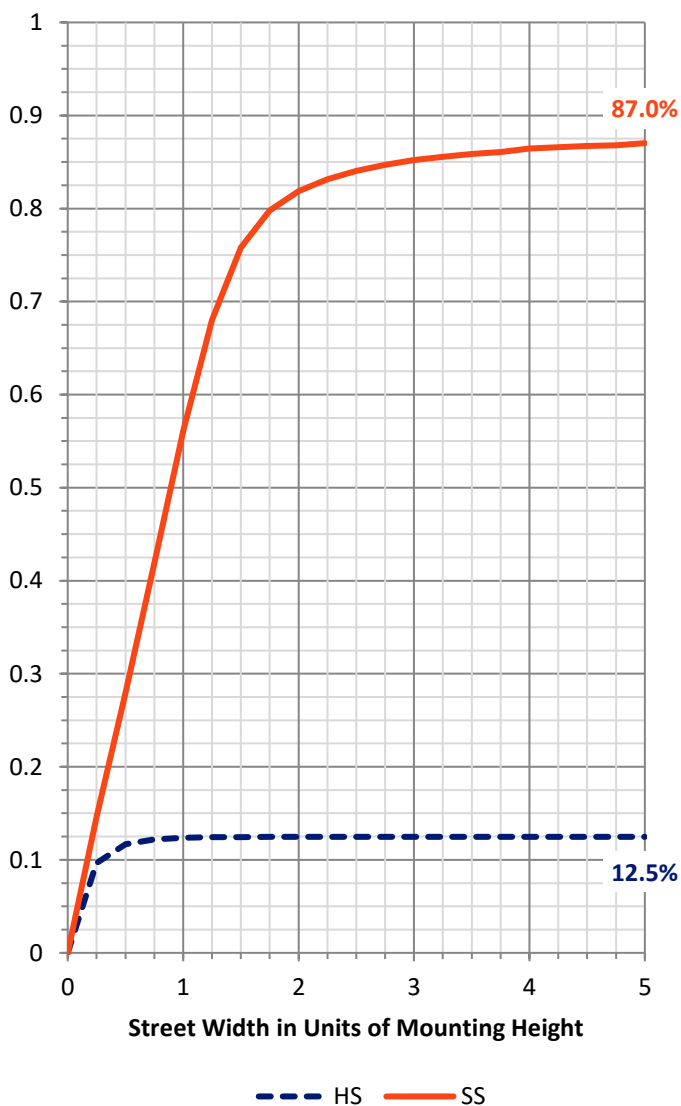
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	390.1	0.0	390.1
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	2709.8	0.0	2709.8
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	3099.9	0.0	3099.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	2.1
10°-20°	142.3	4.6
20°-30°	202.4	6.5
30°-40°	294.7	9.5
40°-50°	456.1	14.7
50°-60°	699.9	22.6
60°-70°	758.7	24.5
70°-80°	428.0	13.8
80°-90°	53.8	1.7
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°	3099.9	100.0
0°-180°	3099.9	100.0

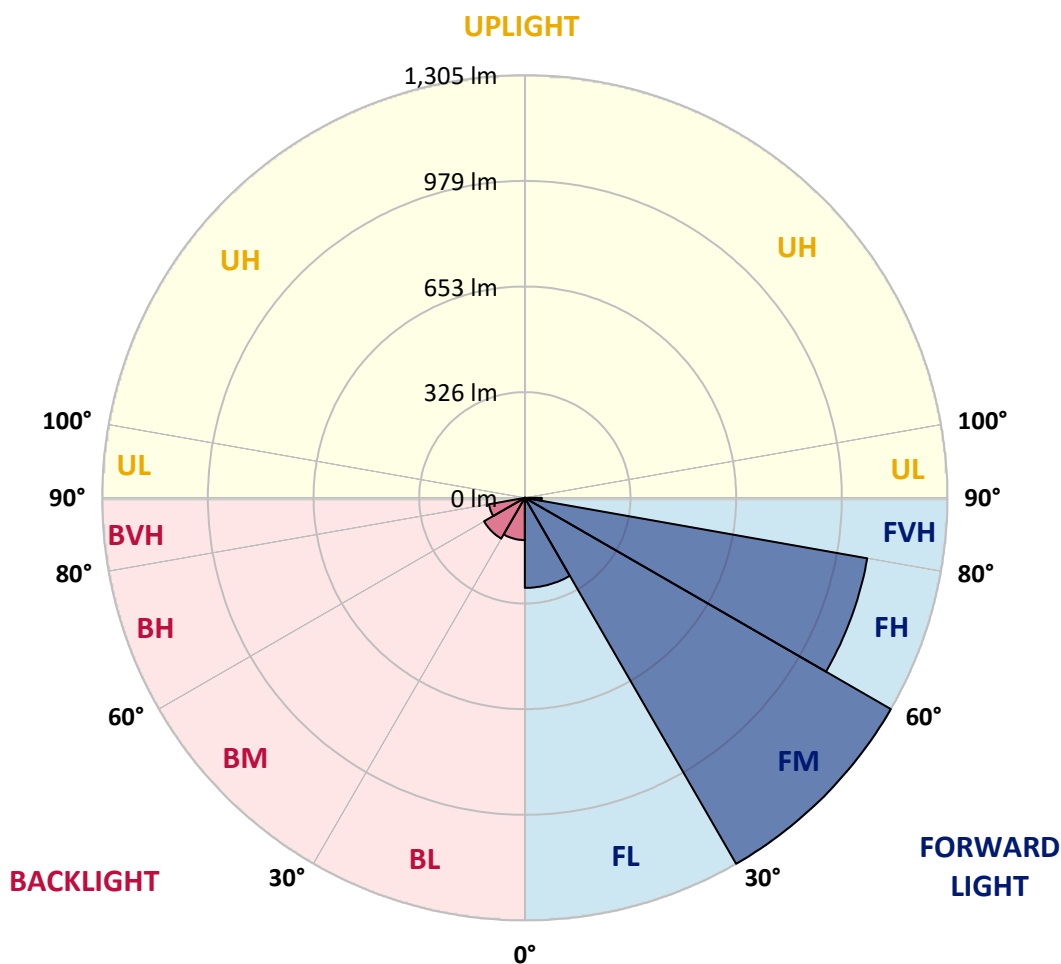


REPORT NUMBER: P676918  
 CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.1	9.0			
FM (30°-60°)	1305.3	42.1			
FH (60°-80°)	1074.0	34.6			G1/1800
FVH (80°-90°)	52.2	1.7			G1/100
BL (0°-30°)	130.6	4.2	B1/500		
BM (30°-60°)	145.3	4.7	B0/220		
BH (60°-80°)	112.7	3.6	B1/500		G1/500
BVH (80°-90°)	1.5	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-G1**  
 Type II Short





REPORT NUMBER: P676918

CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3
2.5°	727.5	731.2	736.4	743.9	749.1	746.2	748.4	761.1	754.4	760.3	757.4
5°	687.1	690.9	698.4	697.6	703.6	714.8	729.7	746.2	738.7	756.6	763.3
7.5°	645.3	643.8	643.8	659.5	672.2	687.9	696.1	723.0	723.7	739.4	755.9
10°	607.2	611.7	619.2	625.2	637.1	659.5	683.4	704.3	712.5	743.9	748.4
12.5°	584.1	586.3	595.3	600.5	616.2	637.9	663.2	690.1	696.9	729.0	750.6
15°	574.4	579.6	582.6	592.3	600.5	620.7	639.3	670.0	689.4	714.8	741.7
17.5°	581.8	579.6	581.1	584.1	593.8	611.7	631.9	662.5	669.2	711.8	752.1
20°	591.5	592.3	587.8	586.3	584.1	601.3	617.7	657.3	664.7	711.8	758.9
22.5°	617.7	609.5	617.7	605.7	593.8	601.3	616.9	658.0	663.2	711.0	765.6
25°	649.8	651.3	653.5	628.1	611.0	605.7	622.2	660.3	664.7	717.0	768.6
27.5°	695.4	702.1	690.9	678.2	643.8	617.7	621.4	658.8	667.0	714.0	776.0
30°	756.6	751.4	752.9	723.7	690.1	649.1	638.6	662.5	668.5	717.8	790.2
32.5°	809.6	803.7	814.1	803.7	750.6	693.9	658.8	670.0	676.7	726.7	802.2
35°	842.5	850.0	866.4	877.6	832.8	752.1	692.4	690.1	693.1	731.2	811.1
37.5°	893.3	906.7	920.2	948.6	909.7	823.8	745.4	716.3	711.0	752.9	815.6
40°	948.6	944.8	984.4	1018.0	1016.5	924.7	819.3	762.6	755.1	787.2	845.5
42.5°	994.9	991.1	1035.2	1090.5	1096.4	1021.8	903.7	828.3	821.6	840.3	882.1
45°	1055.4	1058.4	1110.6	1176.4	1198.0	1150.2	1018.0	922.4	918.7	912.7	951.6
47.5°	1109.1	1125.6	1170.4	1248.1	1326.5	1283.2	1152.5	1059.9	1033.7	1020.3	1059.1
50°	1146.5	1161.4	1216.0	1298.9	1442.3	1469.9	1303.3	1206.2	1207.0	1174.1	1195.0
52.5°	1146.5	1145.7	1189.8	1298.9	1522.9	1664.8	1505.0	1390.7	1396.7	1362.3	1363.8
55°	1036.0	1033.7	1087.5	1203.3	1514.0	1852.3	1810.5	1624.5	1609.6	1543.1	1549.8
57.5°	834.3	839.5	880.6	1019.5	1397.5	1939.7	2174.2	1887.4	1836.6	1699.2	1699.2
60°	608.7	604.2	634.9	732.0	1119.6	1906.8	2473.0	2197.4	2117.5	1828.4	1809.0
62.5°	463.1	462.3	470.5	503.4	710.3	1662.6	2601.5	2591.7	2461.8	1955.4	1927.7
65°	374.2	375.7	386.9	410.0	433.9	1133.8	2533.5	3062.3	2943.5	2144.4	2054.0
67.5°	305.5	309.2	322.7	372.7	367.5	587.1	2157.8	3331.9	3354.3	2432.7	2223.5
70°	235.3	241.2	256.9	327.9	354.0	390.6	1496.0	3197.5	3257.2	2611.9	2121.2
72.5°	159.8	159.1	192.7	265.9	357.8	357.8	832.8	2575.3	2632.1	2408.0	1842.6
75°	86.6	91.9	127.7	200.9	327.9	345.8	474.3	1884.4	1964.3	1872.5	1425.1
77.5°	47.1	47.8	71.0	131.5	272.6	330.1	316.7	1281.7	1313.1	1129.3	780.5
80°	24.6	25.4	37.3	85.9	188.2	306.2	263.7	764.1	734.2	433.2	257.7
82.5°	11.2	12.0	18.7	53.8	120.3	241.2	227.8	369.0	340.6	121.0	78.4
85°	4.5	4.5	8.2	32.1	70.2	118.8	194.9	185.2	154.6	36.6	38.8
87.5°	1.5	1.5	2.2	12.7	28.4	71.0	103.8	97.8	67.2	13.4	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676918  
 CATALOG NUMBER: CCW-SA-1C-840-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3
2.5°	754.4	762.6	760.3	758.9	744.7	743.2	741.7	728.2	732.7	721.5	729.0
5°	758.9	763.3	751.4	729.0	708.8	686.4	669.2	657.3	635.6	627.4	625.9
7.5°	754.4	754.4	729.7	693.9	654.3	617.7	571.4	538.5	513.9	495.2	501.9
10°	748.4	739.4	714.0	650.6	578.8	523.6	457.1	408.6	372.0	360.0	352.5
12.5°	748.4	732.7	675.9	589.3	496.7	413.0	333.9	270.4	235.3	214.4	211.4
15°	741.7	718.5	648.3	531.8	416.8	303.2	212.9	158.3	128.5	120.3	117.3
17.5°	743.2	715.5	607.2	463.8	323.4	201.7	130.0	100.1	92.6	88.9	89.6
20°	746.2	715.5	570.6	397.4	233.0	125.5	89.6	84.4	80.7	79.2	79.9
22.5°	755.9	701.3	533.3	329.4	157.6	90.4	79.2	73.9	71.0	68.7	68.0
25°	757.4	699.1	497.4	262.2	108.3	76.2	69.5	63.5	59.8	56.8	56.0
27.5°	755.1	689.4	447.4	194.9	81.4	68.0	59.0	53.0	47.8	45.6	44.8
30°	763.3	671.5	404.8	140.4	68.7	59.0	50.0	43.3	38.8	35.9	35.9
32.5°	764.1	655.8	357.8	100.1	62.7	52.3	42.6	35.1	30.6	29.1	29.1
35°	764.8	641.6	305.5	76.2	56.0	44.8	35.1	29.1	26.1	23.9	23.9
37.5°	767.1	631.1	257.7	64.2	50.0	38.1	29.1	23.9	20.9	20.2	20.2
40°	771.5	616.9	207.6	56.8	43.3	32.1	24.6	20.2	17.2	16.4	15.7
42.5°	783.5	613.2	165.8	50.8	38.8	26.9	20.2	16.4	14.2	12.7	12.0
45°	832.8	622.9	128.5	47.1	32.9	22.4	17.2	13.4	10.5	9.7	9.0
47.5°	913.5	655.0	101.6	41.8	27.6	18.7	14.2	10.5	8.2	7.5	6.7
50°	1036.0	728.2	82.9	37.3	23.2	15.7	11.2	8.2	6.0	5.2	5.2
52.5°	1196.5	826.8	71.7	32.9	18.7	13.4	9.0	6.0	4.5	3.7	3.7
55°	1360.9	943.3	67.2	28.4	15.7	11.2	6.7	4.5	3.0	2.2	2.2
57.5°	1511.7	1018.8	65.0	23.2	13.4	8.2	5.2	3.0	1.5	0.7	0.7
60°	1605.8	1074.0	58.3	18.7	10.5	6.7	3.7	1.5	0.7	0.0	0.0
62.5°	1729.8	1130.1	47.8	14.2	7.5	4.5	2.2	0.7	0.0	0.0	0.0
65°	1893.4	1192.8	37.3	11.2	6.0	3.0	1.5	0.7	0.0	0.0	0.0
67.5°	1971.8	1159.9	25.4	8.2	3.7	1.5	0.7	0.0	0.0	0.0	0.0
70°	1815.0	976.9	17.9	6.0	2.2	0.7	0.7	0.0	0.0	0.0	0.0
72.5°	1525.9	765.6	13.4	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
75°	1124.8	478.8	10.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	596.8	178.5	7.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	176.3	52.3	5.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.3	15.7	3.0	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	6.0	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	2.2	1.5	1.5	0.7	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)