

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: P677199

Luminaire Tested: **CCW-SA-2A-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677199
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-835-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

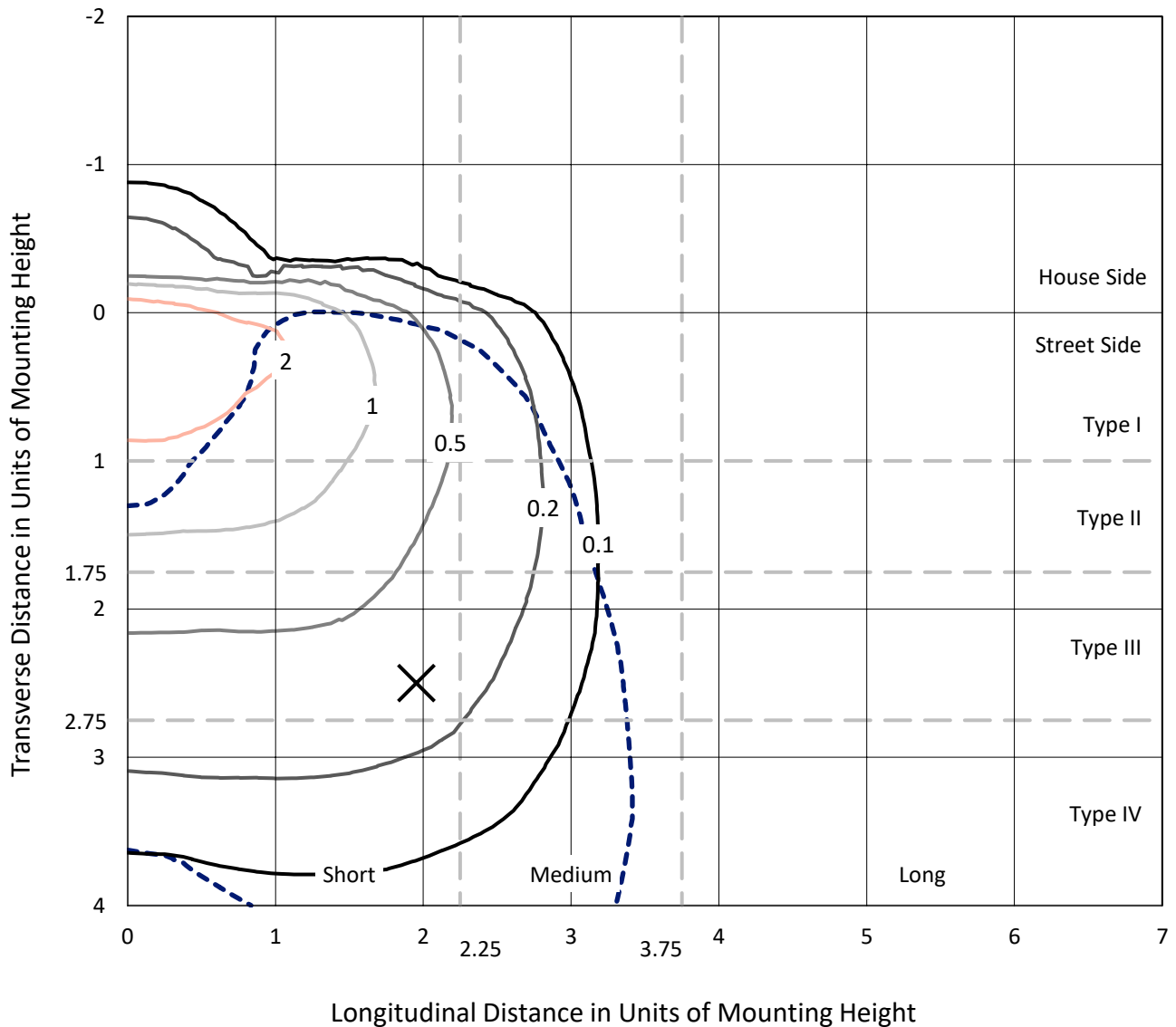
Lumens per Lamp: N/A
Luminaire Lumens: 3724.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

REPORT NUMBER: P677199
 CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

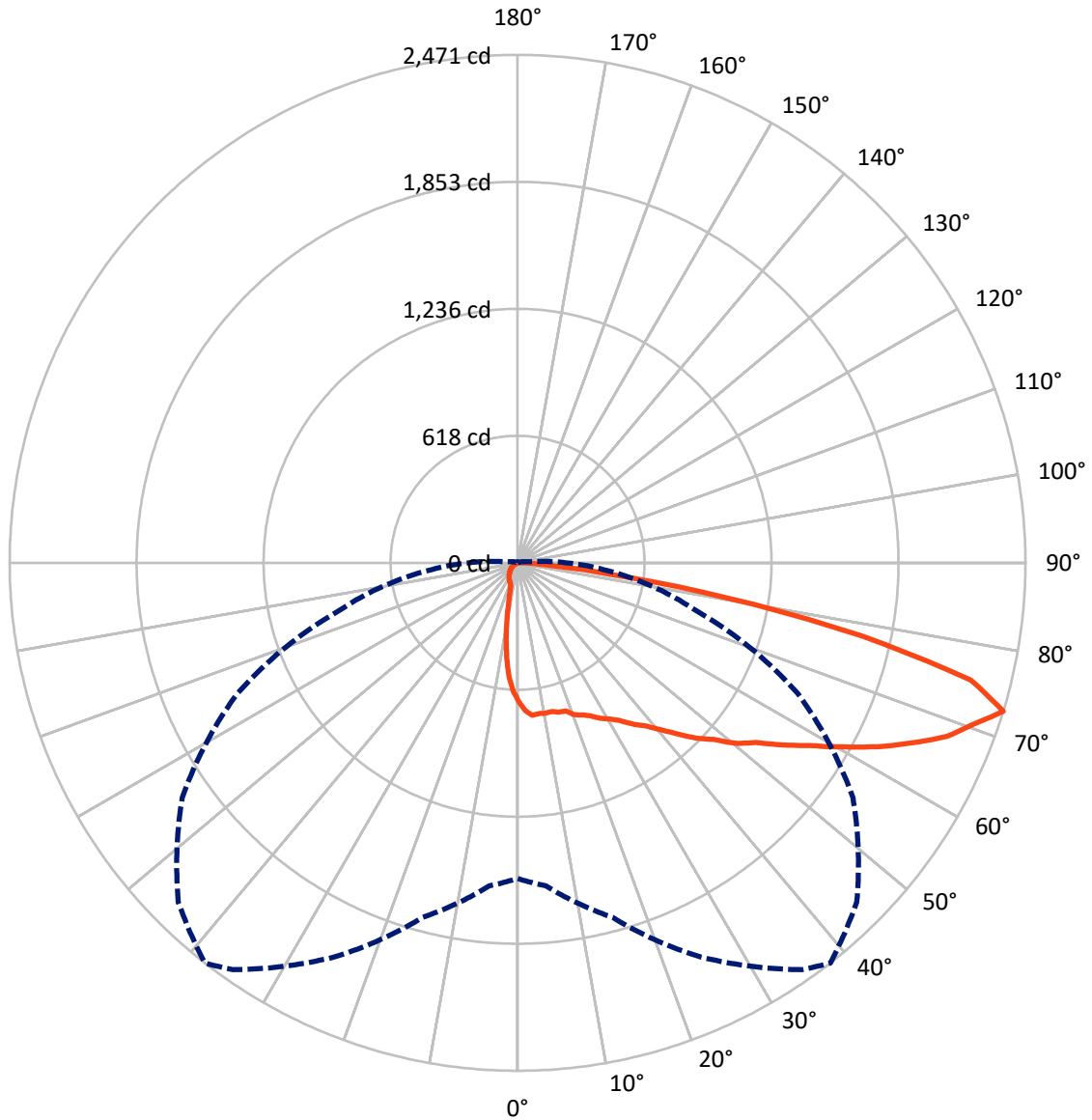
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P677199
CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677199
 CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

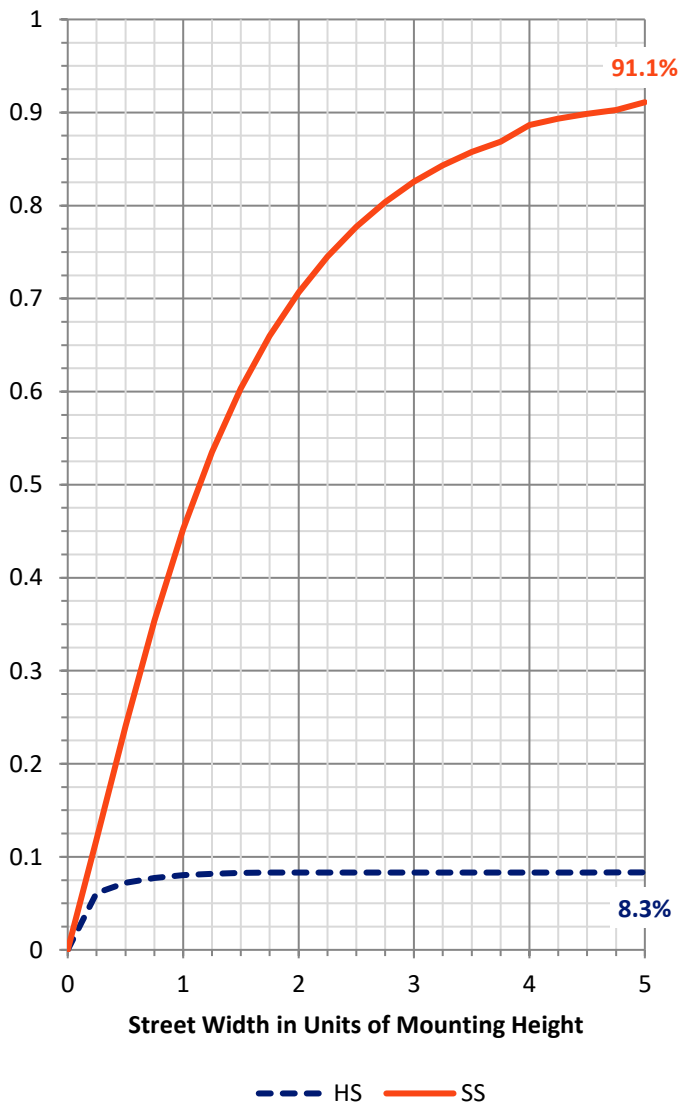
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	311.9	0.0	311.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3412.3	0.0	3412.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	3724.2	0.0	3724.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.6
10°-20°	144.3	3.9
20°-30°	231.4	6.2
30°-40°	349.3	9.4
40°-50°	531.7	14.3
50°-60°	748.5	20.1
60°-70°	914.3	24.6
70°-80°	663.9	17.8
80°-90°	81.8	2.2
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°	3724.2	100.0
0°-180°	3724.2	100.0

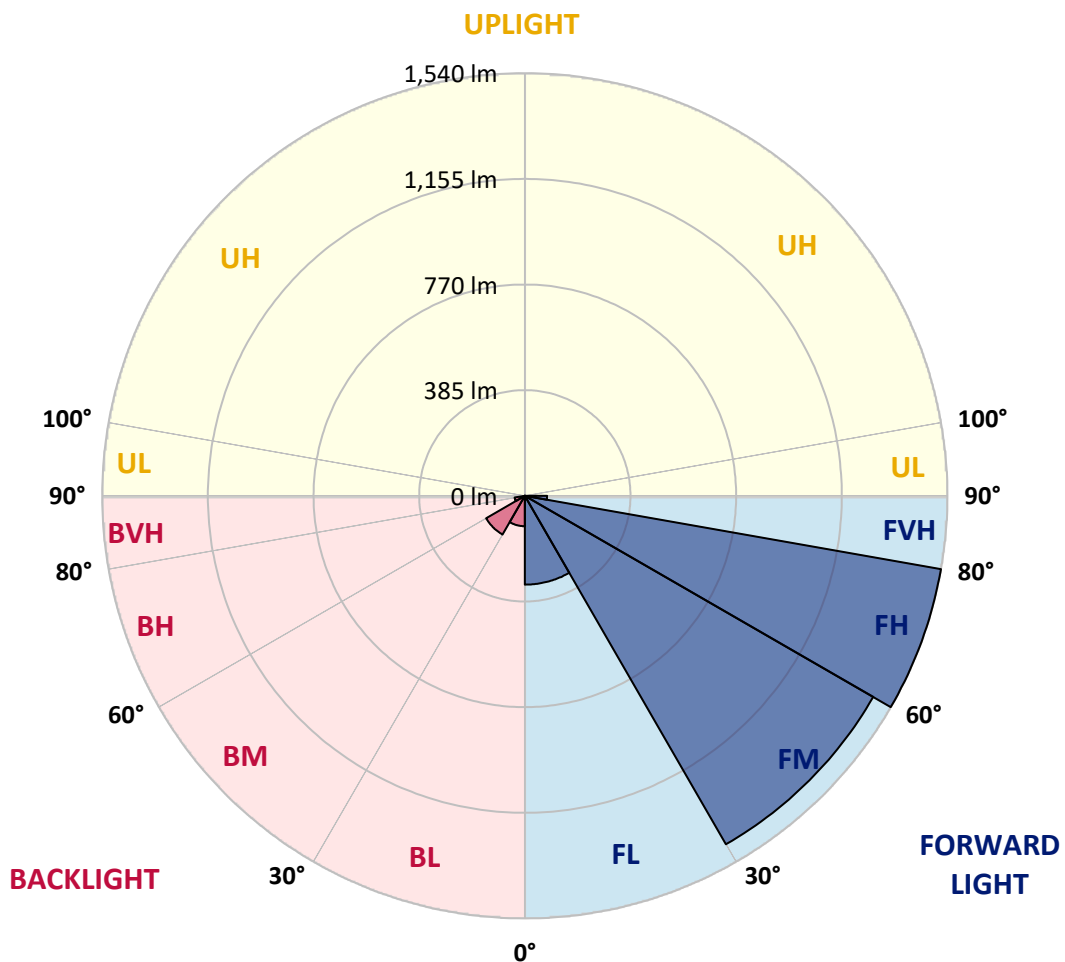


REPORT NUMBER: P677199
 CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.9	8.7			
FM (30°-60°)	1466.6	39.4			
FH (60°-80°)	1540.5	41.4			G1/1800
FVH (80°-90°)	81.3	2.2			G1/100
BL (0°-30°)	110.7	3.0	B1/500		
BM (30°-60°)	162.9	4.4	B0/220		
BH (60°-80°)	37.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Short





REPORT NUMBER: P677199

CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5
2.5°	739.9	739.9	746.9	739.9	737.3	720.7	721.5	712.8	704.1	691.8	680.5
5°	748.6	754.7	759.1	753.0	743.4	745.1	751.2	734.6	711.1	696.2	670.9
7.5°	745.1	758.2	754.7	751.2	745.1	740.7	732.0	725.0	713.7	699.7	670.0
10°	742.5	746.9	747.7	745.1	732.0	744.2	734.6	723.3	709.3	692.7	656.0
12.5°	732.9	732.9	740.7	734.6	736.4	742.5	738.1	735.5	720.7	706.7	674.4
15°	722.4	725.9	738.1	747.7	756.5	753.9	751.2	743.4	730.3	714.5	680.5
17.5°	725.0	726.8	746.0	763.5	759.1	757.3	771.3	754.7	741.6	724.2	685.7
20°	734.6	739.9	761.7	784.4	788.8	788.8	783.6	773.9	755.6	732.0	695.3
22.5°	744.2	746.0	781.8	810.6	815.0	803.6	808.0	780.1	762.6	749.5	704.9
25°	780.9	777.4	815.9	838.6	836.0	824.6	820.2	795.8	788.8	765.2	725.9
27.5°	830.7	815.9	853.4	867.4	853.4	856.9	844.7	818.5	803.6	789.7	735.5
30°	861.3	870.0	890.1	904.1	880.5	881.4	875.3	846.4	823.7	827.2	767.8
32.5°	908.5	914.6	929.4	935.5	917.2	915.5	909.3	886.6	870.0	866.5	811.5
35°	959.1	970.5	971.4	973.1	956.5	963.5	954.8	922.4	931.2	937.3	863.9
37.5°	1008.9	998.4	1015.9	1023.8	1005.4	1005.4	1008.0	986.2	1001.9	1020.3	938.2
40°	1028.1	1032.5	1063.1	1057.0	1078.8	1065.7	1075.3	1070.1	1083.2	1125.1	1043.0
42.5°	1048.2	1053.5	1094.5	1105.9	1132.1	1136.5	1150.4	1151.3	1189.7	1258.8	1143.4
45°	1086.7	1077.9	1133.8	1161.8	1204.6	1216.8	1233.4	1247.4	1307.7	1388.9	1257.9
47.5°	1121.6	1109.4	1173.1	1229.1	1281.5	1284.1	1329.5	1344.4	1416.0	1508.6	1371.4
50°	1170.5	1174.9	1202.0	1298.1	1351.3	1381.9	1413.4	1462.3	1541.8	1640.5	1453.5
52.5°	1221.2	1216.8	1262.2	1356.6	1440.4	1451.8	1522.6	1577.6	1664.1	1738.3	1490.2
55°	1283.2	1288.5	1305.9	1430.0	1536.5	1563.6	1643.1	1700.8	1795.1	1780.2	1502.5
57.5°	1345.2	1340.0	1379.3	1512.1	1657.1	1677.2	1782.9	1816.9	1880.7	1808.2	1471.9
60°	1406.4	1416.0	1432.6	1604.7	1789.0	1818.7	1902.5	1920.0	1934.0	1821.3	1448.3
62.5°	1476.3	1453.5	1505.1	1702.5	1907.8	1969.8	2036.2	1967.2	1955.0	1797.7	1394.1
65°	1511.2	1518.2	1585.4	1814.3	2065.9	2111.3	2120.0	2030.9	1968.1	1745.3	1343.5
67.5°	1565.4	1575.0	1660.6	1928.7	2228.4	2253.7	2222.2	2088.6	1956.7	1677.2	1160.9
70°	1572.3	1595.9	1761.0	2048.4	2330.6	2352.4	2327.9	2127.0	1865.0	1409.0	859.5
72.5°	1535.7	1577.6	1785.5	2116.6	2416.2	2471.2	2334.1	1991.6	1503.3	898.9	440.3
75°	1160.0	1195.0	1634.4	2015.2	2264.2	2277.3	2049.3	1519.9	856.1	306.6	112.7
77.5°	601.0	661.3	1091.0	1540.0	1725.2	1711.2	1426.5	895.4	294.4	80.4	45.4
80°	345.0	359.9	476.9	864.8	1084.9	1031.6	788.8	386.1	129.3	40.2	29.7
82.5°	170.3	191.3	256.8	387.0	542.5	446.4	296.1	231.5	72.5	21.8	26.2
85°	36.7	38.4	131.0	185.2	220.1	145.0	101.3	194.8	26.2	13.1	25.3
87.5°	26.2	25.3	36.7	83.0	61.1	37.6	60.3	102.2	6.1	6.1	5.2
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: P677199
 CATALOG NUMBER: CCW-SA-2A-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5	673.5
2.5°	673.5	665.6	656.9	640.3	635.9	633.3	618.5	617.6	615.0	608.8	606.2
5°	655.1	642.0	625.4	608.0	594.0	568.7	538.1	522.4	503.2	504.0	497.9
7.5°	652.5	628.1	604.5	567.8	523.2	476.1	428.9	398.3	376.5	363.4	366.0
10°	640.3	622.0	583.5	515.4	443.8	372.1	311.8	266.4	240.2	220.1	226.2
12.5°	645.5	609.7	555.6	464.7	362.5	274.3	199.2	155.5	136.3	129.3	131.0
15°	642.0	609.7	539.0	409.7	284.8	186.1	129.3	115.3	111.8	111.8	110.1
17.5°	652.5	616.7	511.0	355.5	204.4	124.0	110.9	108.3	105.7	105.7	105.7
20°	667.4	620.2	491.8	295.3	144.1	109.2	103.9	102.2	101.3	101.3	100.5
22.5°	668.2	616.7	456.0	228.9	110.9	103.1	98.7	97.8	97.8	96.1	96.1
25°	673.5	620.2	417.5	172.1	103.1	97.0	93.5	92.6	93.5	92.6	91.7
27.5°	686.6	626.3	379.1	125.8	97.0	91.7	89.1	88.2	88.2	88.2	86.5
30°	703.2	626.3	336.3	103.9	91.7	86.5	83.9	83.0	82.1	82.1	82.1
32.5°	738.1	646.4	283.9	92.6	84.7	80.4	77.7	77.7	76.9	76.9	76.0
35°	781.8	660.4	230.6	85.6	78.6	74.2	71.6	71.6	70.8	70.8	69.9
37.5°	836.0	695.3	176.5	80.4	72.5	68.1	65.5	65.5	65.5	64.6	64.6
40°	912.8	731.1	131.0	73.4	66.4	62.0	60.3	59.4	58.5	58.5	56.8
42.5°	994.9	786.2	97.8	68.1	61.1	57.7	55.0	52.4	52.4	49.8	49.8
45°	1084.0	834.2	79.5	62.0	55.9	51.5	48.9	47.2	44.5	42.8	42.8
47.5°	1171.4	863.9	69.9	55.0	50.7	47.2	44.5	41.1	37.6	36.7	35.8
50°	1242.2	872.7	62.0	49.8	46.3	42.8	39.3	34.9	31.4	29.7	28.8
52.5°	1242.2	824.6	55.9	44.5	41.9	38.4	34.1	28.8	24.5	22.7	21.8
55°	1242.2	748.6	49.8	41.1	37.6	34.9	28.8	23.6	19.2	16.6	15.7
57.5°	1223.8	656.9	44.5	36.7	33.2	29.7	24.5	18.3	14.0	11.4	11.4
60°	1173.1	560.8	38.4	32.3	28.8	24.5	19.2	13.1	8.7	6.1	6.1
62.5°	1108.5	446.4	33.2	27.1	23.6	20.1	14.8	8.7	3.5	1.7	1.7
65°	995.8	329.3	28.8	22.7	18.3	14.8	9.6	3.5	0.0	0.0	0.0
67.5°	822.0	220.1	22.7	18.3	15.7	10.5	6.1	0.9	0.0	0.0	0.0
70°	578.3	124.9	17.5	13.1	11.4	7.0	1.7	0.0	0.0	0.0	0.0
72.5°	237.6	55.0	12.2	9.6	7.9	3.5	0.0	0.0	0.0	0.0	0.0
75°	64.6	24.5	7.9	5.2	4.4	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	37.6	16.6	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.7	7.9	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.7	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	0.0	0.0	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)