

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: P674486

Luminaire Tested: **CCP-SA-2A-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674486
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

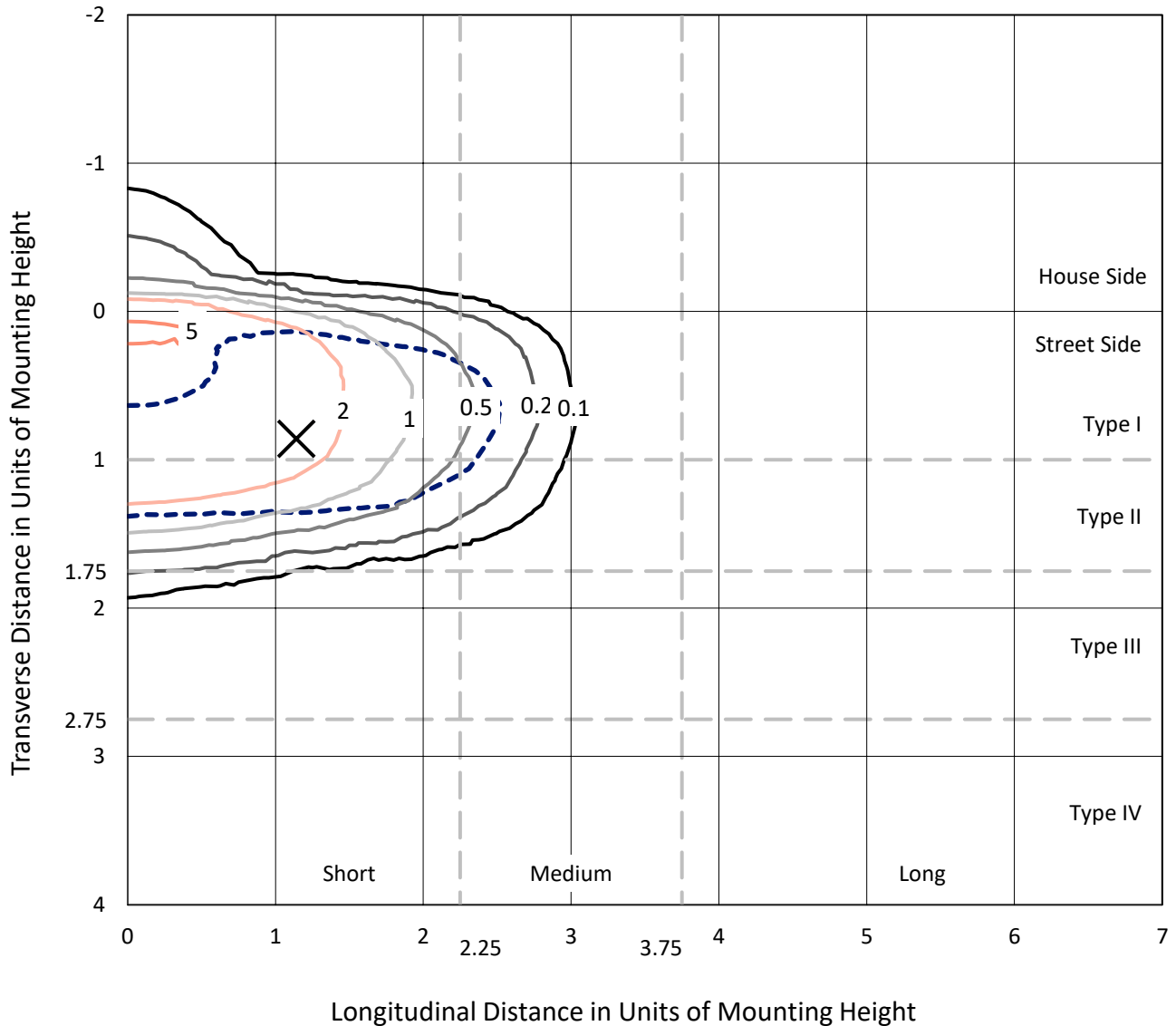
Lumens per Lamp: N/A
Luminaire Lumens: 3868.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 36.2
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

REPORT NUMBER: P674486
 CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

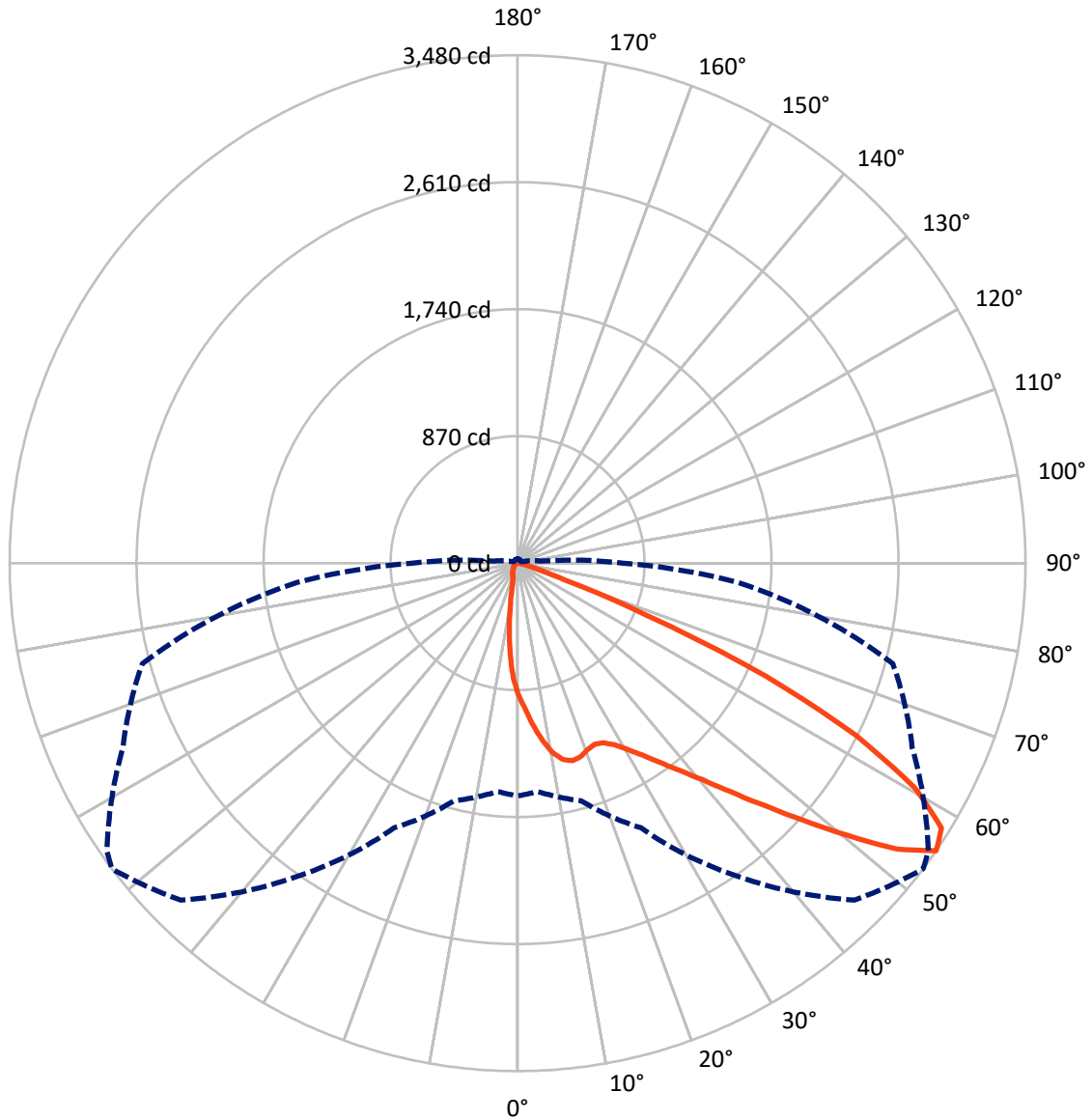
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

REPORT NUMBER: P674486
CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P674486
 CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	209.1	0.0	209.1
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3659.5	0.0	3659.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	3868.6	0.0	3868.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	2.1
10°-20°	211.5	5.5
20°-30°	354.0	9.2
30°-40°	579.1	15.0
40°-50°	930.9	24.1
50°-60°	1051.1	27.2
60°-70°	560.6	14.5
70°-80°	92.1	2.4
80°-90°	8.2	0.2
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°	3868.6	100.0
0°-180°	3868.6	100.0



REPORT NUMBER: P674486

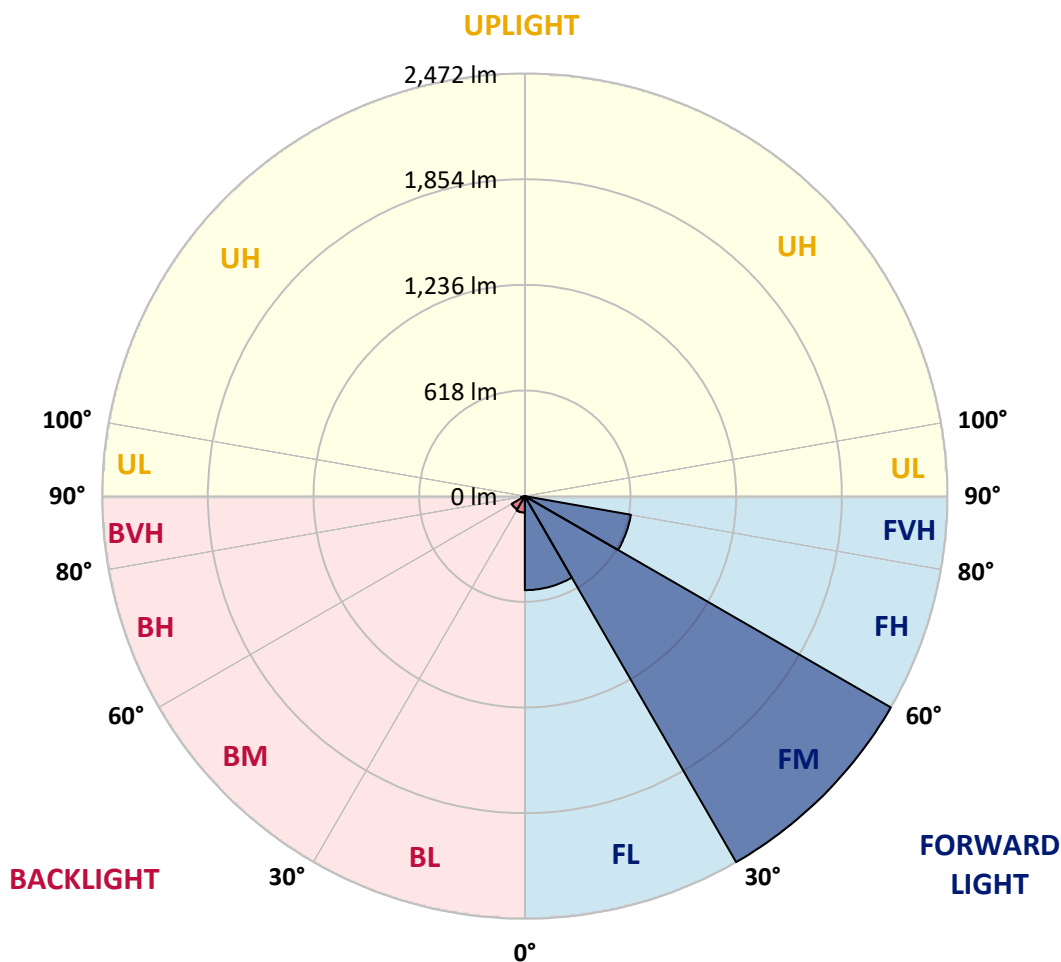
CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.9	14.2			
FM (30°-60°)	2472.0	63.9			
FH (60°-80°)	629.9	16.3			G0/660
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	96.5	2.5	B0/110		
BM (30°-60°)	89.1	2.3	B0/220		
BH (60°-80°)	22.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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-G0

Type II Short





REPORT NUMBER: P674486
 CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3
2.5°	1085.7	1079.2	1082.9	1073.1	1055.2	1032.8	999.2	1000.9	974.5	951.4	919.6
5°	1265.0	1258.2	1256.2	1231.1	1206.0	1165.7	1115.8	1107.7	1059.2	1000.6	933.8
7.5°	1359.5	1353.8	1358.2	1349.0	1324.3	1287.7	1224.6	1218.5	1143.6	1054.8	956.5
10°	1316.1	1314.1	1332.8	1354.4	1374.4	1370.0	1319.5	1310.0	1226.0	1114.5	979.9
12.5°	1199.5	1206.0	1229.7	1269.7	1331.4	1389.4	1381.2	1382.9	1310.0	1179.2	1005.7
15°	1131.1	1138.9	1152.4	1173.1	1249.0	1352.1	1404.6	1421.6	1390.7	1251.4	1036.2
17.5°	1125.3	1131.8	1133.8	1141.6	1186.0	1292.1	1395.1	1427.3	1462.6	1319.5	1070.4
20°	1169.7	1172.4	1170.7	1165.0	1180.9	1259.5	1365.3	1411.4	1521.9	1392.1	1100.6
22.5°	1253.4	1249.4	1244.3	1222.9	1221.9	1268.7	1349.0	1397.2	1557.1	1452.1	1120.6
25°	1357.2	1348.7	1341.6	1311.4	1297.2	1316.5	1363.6	1402.2	1589.0	1510.4	1134.8
27.5°	1470.4	1473.1	1455.5	1414.8	1392.4	1388.3	1408.7	1437.5	1619.8	1562.6	1142.6
30°	1591.4	1592.7	1569.7	1527.7	1507.3	1481.2	1479.9	1497.1	1653.1	1622.6	1150.1
32.5°	1729.3	1733.1	1695.4	1651.7	1616.1	1582.2	1565.6	1580.2	1712.7	1700.9	1165.3
35°	1928.6	1912.4	1861.5	1795.4	1744.9	1700.5	1675.1	1684.6	1792.0	1794.7	1195.8
37.5°	2134.0	2132.3	2076.1	1980.8	1898.1	1842.9	1799.5	1815.1	1903.5	1920.5	1244.6
40°	2325.5	2329.9	2281.1	2198.1	2091.7	1996.8	1950.3	1960.8	2051.7	2073.0	1303.9
42.5°	2450.6	2448.2	2452.0	2428.2	2321.5	2209.6	2139.8	2145.6	2223.9	2235.0	1378.2
45°	2508.2	2499.1	2530.9	2606.2	2563.8	2446.2	2366.6	2359.4	2402.5	2399.4	1445.6
47.5°	2458.4	2441.5	2514.7	2696.0	2778.0	2742.5	2628.6	2615.7	2579.1	2554.7	1515.8
50°	2210.6	2203.2	2359.8	2653.3	2912.6	3016.3	2932.6	2884.8	2736.7	2669.2	1552.7
52.5°	1975.1	1954.4	2060.1	2435.4	2852.6	3236.6	3253.9	3168.9	2867.5	2702.1	1540.2
55°	1595.4	1570.0	1685.3	2000.8	2615.0	3264.8	3479.7	3435.3	2982.1	2661.4	1514.8
57.5°	969.1	944.0	1113.5	1433.1	2091.3	3030.9	3424.1	3469.2	3070.2	2616.7	1498.2
60°	407.4	391.5	457.9	684.0	1335.5	2491.0	3129.2	3241.7	3086.8	2555.4	1504.9
62.5°	211.8	204.7	208.5	273.9	539.9	1640.2	2604.5	2800.4	2919.4	2528.2	1511.7
65°	159.0	153.5	141.7	150.5	209.8	709.1	1871.7	2134.0	2556.4	2459.4	1466.0
67.5°	130.5	125.4	116.9	114.2	123.7	246.1	955.5	1296.5	2003.2	2166.2	1301.9
70°	104.1	102.4	99.7	94.6	92.9	119.3	342.7	528.4	1324.6	1527.7	943.6
72.5°	86.8	87.1	84.1	79.7	73.6	76.9	136.6	180.7	641.0	732.5	395.2
75°	72.5	72.5	73.6	67.5	61.4	52.9	75.9	88.1	205.7	169.1	84.4
77.5°	56.9	57.6	62.0	56.9	49.1	33.2	41.4	47.1	61.0	48.8	30.8
80°	45.4	44.7	43.0	51.2	44.1	23.4	19.7	21.7	28.5	23.4	15.3
82.5°	31.9	31.5	30.2	34.6	34.2	17.3	12.9	13.2	17.3	14.9	9.5
85°	7.8	9.2	19.3	16.3	14.2	10.2	7.8	8.5	11.2	9.8	5.1
87.5°	3.4	3.4	8.8	10.5	6.8	4.4	3.4	3.7	5.8	5.8	3.1
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: P674486
 CATALOG NUMBER: CCP-SA-2A-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3	905.3
2.5°	908.4	886.4	858.6	829.1	798.9	762.6	739.6	720.6	705.7	694.2	690.1
5°	911.8	869.4	806.4	728.1	648.4	573.8	516.2	473.5	438.3	418.9	410.5
7.5°	911.4	855.2	741.3	610.1	480.6	373.2	296.9	249.8	218.3	205.4	197.6
10°	911.1	836.5	667.1	479.3	321.3	216.3	159.3	132.9	121.3	116.9	116.3
12.5°	920.9	815.2	584.0	352.8	201.7	134.6	110.8	104.7	102.0	100.7	100.3
15°	926.4	795.5	496.6	249.1	135.9	106.4	99.0	96.3	95.2	94.6	94.2
17.5°	932.1	765.0	413.5	180.3	108.8	96.6	92.2	90.5	89.8	89.8	89.8
20°	933.1	732.1	331.2	132.9	96.6	90.2	85.8	84.1	83.0	82.4	82.4
22.5°	925.7	693.2	260.3	107.8	89.5	84.1	79.3	76.6	74.9	74.6	74.6
25°	907.0	637.9	199.6	94.6	83.7	78.0	72.2	69.1	67.8	67.8	67.8
27.5°	880.3	572.8	154.2	84.1	76.3	70.5	65.4	62.7	62.4	62.0	62.4
30°	849.7	510.1	118.0	74.6	67.5	62.7	58.6	57.3	58.0	58.0	58.3
32.5°	819.2	447.4	92.2	67.1	59.7	55.6	53.6	53.6	54.6	54.6	54.6
35°	793.1	386.1	77.3	61.0	54.2	50.8	49.8	50.8	51.5	51.9	51.9
37.5°	778.6	333.2	68.1	55.6	49.8	47.1	46.8	47.8	49.1	50.2	50.5
40°	773.1	292.5	62.7	51.5	45.8	44.1	43.7	45.1	47.5	49.1	49.5
42.5°	773.5	256.6	58.0	47.5	43.0	40.7	40.7	42.7	45.1	46.8	46.8
45°	775.9	225.7	53.2	43.4	40.7	36.6	36.9	39.7	41.4	43.0	43.0
47.5°	777.9	201.0	48.1	39.0	35.3	33.2	33.9	35.9	38.3	41.0	41.0
50°	766.0	183.4	43.0	34.2	30.8	30.2	31.5	33.2	36.6	39.3	39.7
52.5°	737.6	167.4	38.6	30.5	27.8	28.1	29.8	30.8	33.6	33.9	34.2
55°	725.0	159.3	35.3	27.8	25.4	26.4	27.5	27.8	27.1	25.4	25.4
57.5°	722.3	153.9	31.9	25.1	23.4	24.7	24.4	22.4	20.3	18.3	18.0
60°	725.0	146.4	29.1	21.7	21.4	21.7	20.7	16.9	14.2	12.9	12.2
62.5°	709.4	135.6	26.8	18.6	18.6	18.3	15.6	11.5	9.2	8.1	7.8
65°	657.9	114.2	24.4	15.6	15.3	14.6	10.5	7.8	6.1	5.1	4.7
67.5°	556.6	88.5	22.0	12.9	12.2	10.2	6.8	5.1	3.4	3.1	2.7
70°	379.6	54.9	18.6	10.2	9.2	6.4	4.1	3.1	2.0	1.7	1.4
72.5°	137.6	31.9	15.6	7.8	6.1	4.1	2.4	1.4	1.0	1.0	0.7
75°	32.5	22.4	11.9	5.8	4.1	2.4	1.4	1.0	0.7	0.7	0.3
77.5°	14.9	17.3	7.8	3.4	2.7	1.7	1.0	0.7	0.3	0.3	0.0
80°	8.5	12.2	3.7	2.4	2.0	1.4	0.7	0.3	0.3	0.0	0.0
82.5°	4.4	6.8	2.7	2.0	1.7	1.0	0.7	0.0	0.0	0.0	0.0
85°	3.1	3.4	2.0	1.7	1.4	1.0	0.7	0.0	0.0	0.0	0.0
87.5°	2.4	2.4	2.0	1.7	1.4	1.0	0.3	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)