

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: P674494

Luminaire Tested: **CCP-SA-1D-850-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-850-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

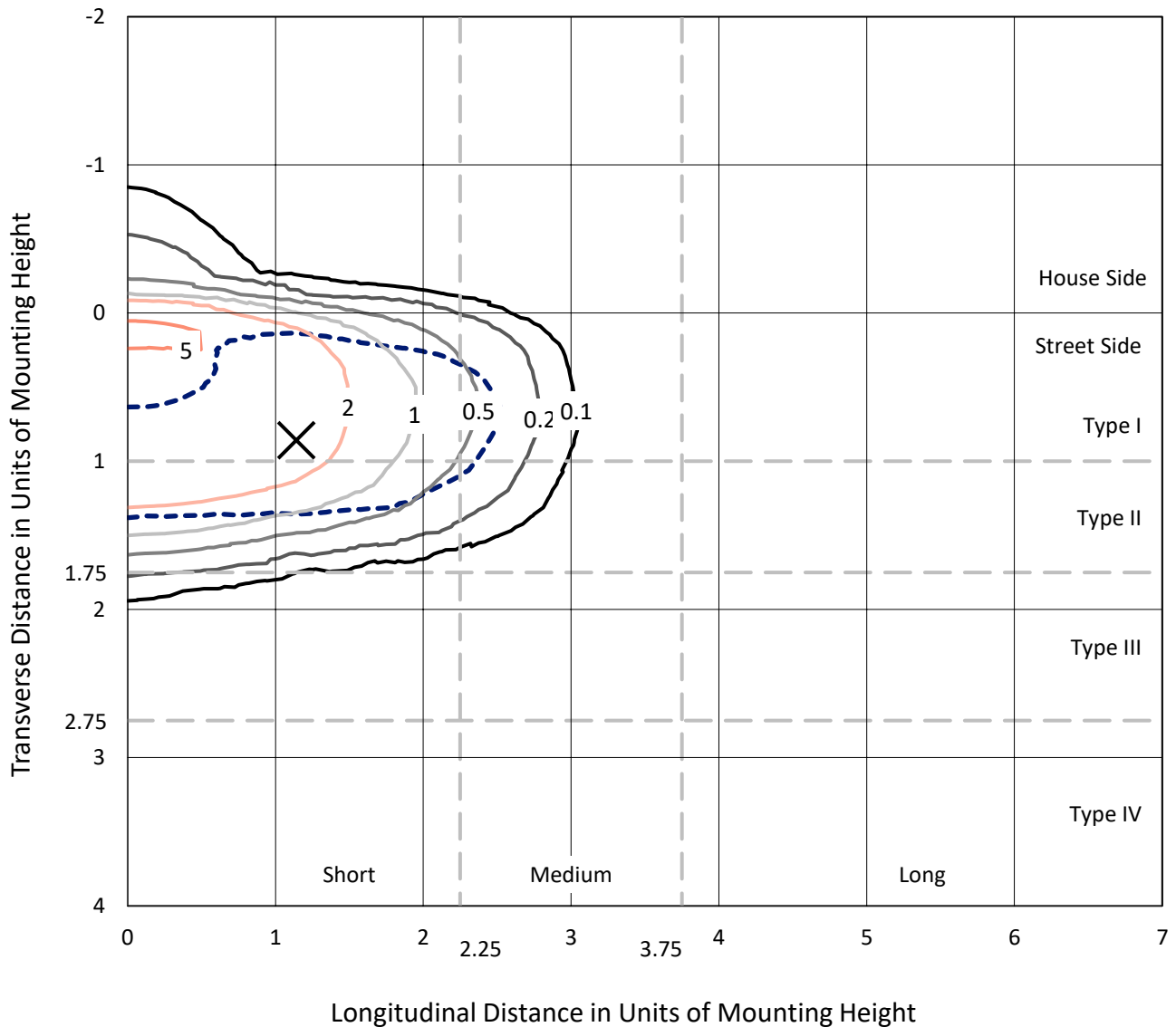
Lumens per Lamp: N/A
Luminaire Lumens: 4035.5 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 44
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: P674494
 CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

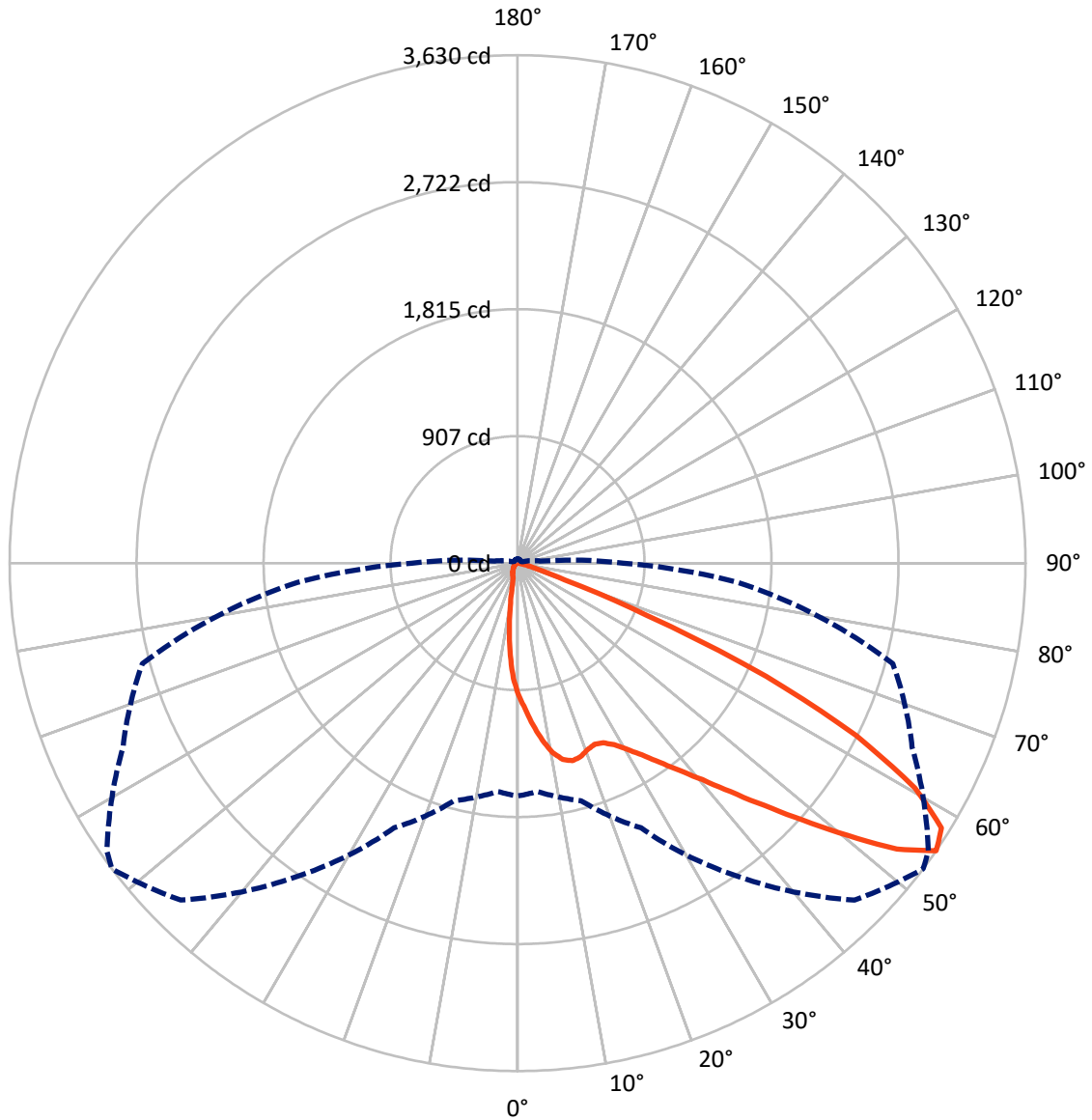
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P674494
CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674494
 CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.1	0.0	218.1
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3817.4	0.0	3817.4
	% Fixture	94.6	0.0	94.6
Total	Lumens	4035.5	0.0	4035.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.1
10°-20°	220.6	5.5
20°-30°	369.3	9.2
30°-40°	604.1	15.0
40°-50°	971.1	24.1
50°-60°	1096.4	27.2
60°-70°	584.8	14.5
70°-80°	96.1	2.4
80°-90°	8.6	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°	4035.5	100.0
0°-180°	4035.5	100.0



REPORT NUMBER: P674494

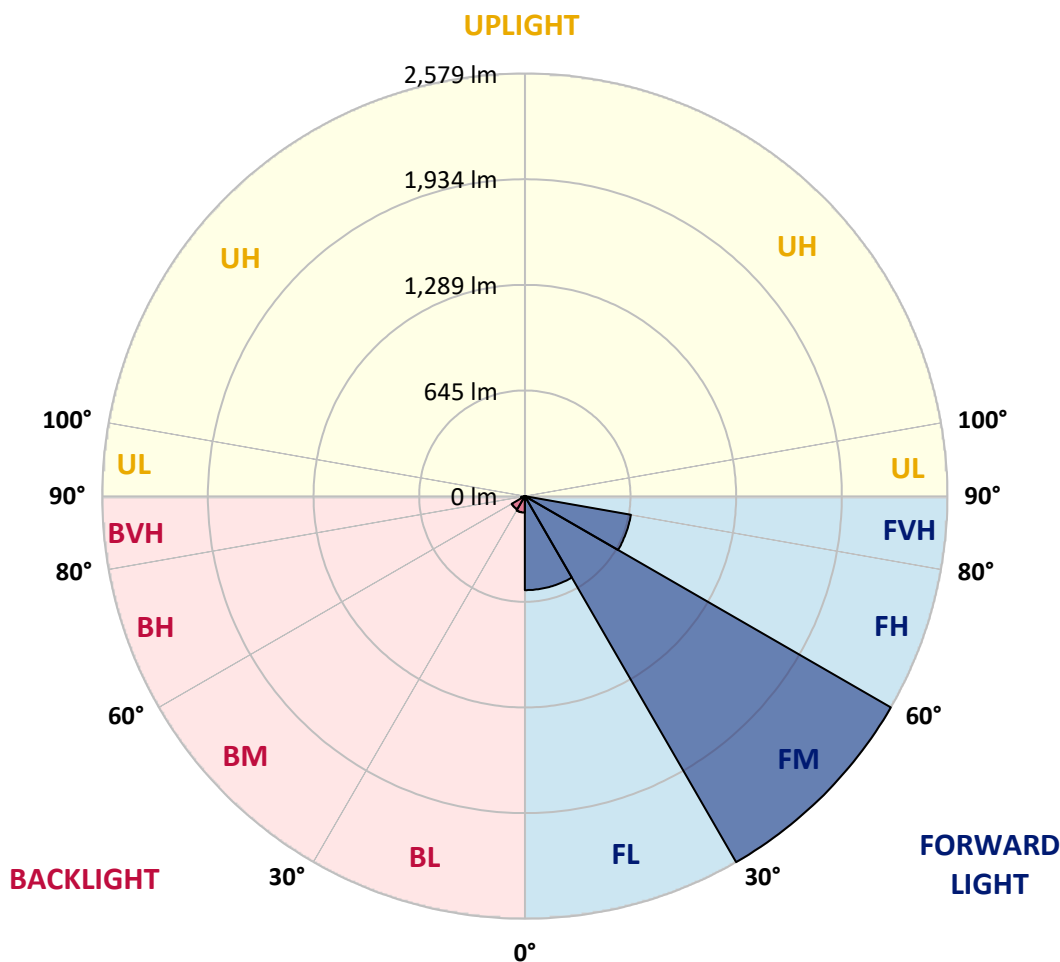
CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.7	14.2			
FM (30°-60°)	2578.7	63.9			
FH (60°-80°)	657.1	16.3			G0/660
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	100.7	2.5	B0/110		
BM (30°-60°)	92.9	2.3	B0/220		
BH (60°-80°)	23.8	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: P674494

CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	1132.5	1125.8	1129.7	1119.4	1100.7	1077.3	1042.3	1044.1	1016.5	992.5	959.3
5°	1319.5	1312.5	1310.4	1284.2	1258.0	1215.9	1164.0	1155.5	1104.9	1043.8	974.1
7.5°	1418.2	1412.2	1416.8	1407.2	1381.4	1343.2	1277.5	1271.1	1193.0	1100.3	997.8
10°	1372.9	1370.8	1390.3	1412.9	1433.7	1429.2	1376.5	1366.6	1278.9	1162.6	1022.2
12.5°	1251.3	1258.0	1282.8	1324.5	1388.8	1449.3	1440.8	1442.6	1366.6	1230.1	1049.1
15°	1179.9	1188.0	1202.2	1223.7	1302.9	1410.4	1465.2	1482.9	1450.7	1305.4	1080.9
17.5°	1173.9	1180.6	1182.7	1190.8	1237.2	1347.8	1455.3	1488.9	1525.7	1376.5	1116.6
20°	1220.2	1223.0	1221.2	1215.2	1231.9	1313.9	1424.2	1472.3	1587.6	1452.1	1148.1
22.5°	1307.5	1303.3	1298.0	1275.7	1274.6	1323.4	1407.2	1457.4	1624.3	1514.7	1168.9
25°	1415.7	1406.9	1399.5	1368.0	1353.1	1373.3	1422.4	1462.7	1657.6	1575.5	1183.8
27.5°	1533.8	1536.6	1518.3	1475.8	1452.5	1448.2	1469.5	1499.5	1689.7	1630.0	1191.9
30°	1660.0	1661.5	1637.4	1593.6	1572.4	1545.1	1543.7	1561.7	1724.4	1692.6	1199.7
32.5°	1803.9	1807.8	1768.6	1723.0	1685.8	1650.5	1633.2	1648.4	1786.6	1774.2	1215.6
35°	2011.8	1994.9	1941.8	1872.9	1820.2	1773.9	1747.4	1757.3	1869.4	1872.2	1247.4
37.5°	2226.1	2224.3	2165.7	2066.3	1980.0	1922.4	1877.1	1893.4	1985.7	2003.4	1298.3
40°	2425.9	2430.5	2379.6	2292.9	2181.9	2082.9	2034.5	2045.4	2140.2	2162.5	1360.2
42.5°	2556.4	2553.9	2557.8	2533.0	2421.6	2305.0	2232.1	2238.1	2319.8	2331.5	1437.6
45°	2616.5	2606.9	2640.1	2718.6	2674.4	2551.8	2468.7	2461.2	2506.1	2503.0	1508.0
47.5°	2564.5	2546.8	2623.2	2812.3	2897.9	2860.8	2742.0	2728.5	2690.4	2664.9	1581.2
50°	2306.0	2298.2	2461.6	2767.8	3038.3	3146.5	3059.1	3009.3	2854.8	2784.4	1619.7
52.5°	2060.3	2038.7	2149.0	2540.4	2975.7	3376.3	3394.3	3305.6	2991.2	2818.7	1606.6
55°	1664.3	1637.8	1758.0	2087.2	2727.8	3405.6	3629.8	3583.5	3110.8	2776.3	1580.1
57.5°	1010.9	984.7	1161.5	1494.9	2181.6	3161.7	3571.8	3618.8	3202.7	2729.6	1562.8
60°	425.0	408.4	477.7	713.5	1393.1	2598.4	3264.2	3381.6	3220.0	2665.6	1569.9
62.5°	221.0	213.6	217.4	285.7	563.2	1711.0	2716.9	2921.2	3045.3	2637.3	1576.9
65°	165.8	160.2	147.8	157.0	218.9	739.7	1952.4	2226.1	2666.7	2565.5	1529.2
67.5°	136.1	130.8	122.0	119.2	129.1	256.7	996.7	1352.4	2089.6	2259.7	1358.1
70°	108.5	106.8	104.0	98.6	96.9	124.5	357.5	551.2	1381.8	1593.6	984.4
72.5°	90.5	90.9	87.7	83.1	76.7	80.3	142.5	188.5	668.6	764.1	412.3
75°	75.7	75.7	76.7	70.4	64.0	55.2	79.2	91.9	214.6	176.4	88.0
77.5°	59.4	60.1	64.7	59.4	51.3	34.7	43.1	49.1	63.6	50.9	32.2
80°	47.4	46.7	44.9	53.4	46.0	24.4	20.5	22.6	29.7	24.4	15.9
82.5°	33.2	32.9	31.5	36.1	35.7	18.0	13.4	13.8	18.0	15.6	9.9
85°	8.1	9.5	20.2	17.0	14.9	10.6	8.1	8.8	11.7	10.3	5.3
87.5°	3.5	3.5	9.2	11.0	7.1	4.6	3.5	3.9	6.0	6.0	3.2
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: P674494
 CATALOG NUMBER: CCP-SA-1D-850-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	947.6	924.6	895.6	864.8	833.4	795.5	771.5	751.7	736.1	724.1	719.9
5°	951.1	906.9	841.2	759.5	676.4	598.6	538.5	493.9	457.2	437.0	428.2
7.5°	950.8	892.1	773.3	636.4	501.4	389.3	309.7	260.6	227.7	214.3	206.1
10°	950.4	872.6	695.8	500.0	335.2	225.6	166.2	138.6	126.6	122.0	121.3
12.5°	960.7	850.3	609.2	368.1	210.4	140.4	115.6	109.3	106.4	105.0	104.7
15°	966.3	829.8	518.0	259.9	141.8	111.0	103.2	100.4	99.4	98.6	98.3
17.5°	972.3	798.0	431.4	188.1	113.5	100.8	96.2	94.4	93.7	93.7	93.7
20°	973.4	763.7	345.4	138.6	100.8	94.1	89.5	87.7	86.6	85.9	85.9
22.5°	965.6	723.1	271.5	112.4	93.3	87.7	82.7	79.9	78.1	77.8	77.8
25°	946.2	665.4	208.3	98.6	87.3	81.3	75.3	72.1	70.7	70.7	70.7
27.5°	918.2	597.5	160.9	87.7	79.6	73.5	68.2	65.4	65.1	64.7	65.1
30°	886.4	532.1	123.0	77.8	70.4	65.4	61.2	59.8	60.5	60.5	60.8
32.5°	854.6	466.7	96.2	70.0	62.2	58.0	55.9	55.9	56.9	56.9	56.9
35°	827.4	402.7	80.6	63.6	56.6	53.0	52.0	53.0	53.7	54.1	54.1
37.5°	812.2	347.6	71.1	58.0	52.0	49.1	48.8	49.9	51.3	52.3	52.7
40°	806.5	305.1	65.4	53.7	47.7	46.0	45.6	47.0	49.5	51.3	51.6
42.5°	806.9	267.7	60.5	49.5	44.9	42.4	42.4	44.6	47.0	48.8	48.8
45°	809.3	235.5	55.5	45.3	42.4	38.2	38.5	41.4	43.1	44.9	44.9
47.5°	811.5	209.7	50.2	40.7	36.8	34.7	35.4	37.5	40.0	42.8	42.8
50°	799.1	191.3	44.9	35.7	32.2	31.5	32.9	34.7	38.2	41.0	41.4
52.5°	769.4	174.7	40.3	31.8	29.0	29.3	31.1	32.2	35.0	35.4	35.7
55°	756.3	166.2	36.8	29.0	26.5	27.6	28.6	29.0	28.3	26.5	26.5
57.5°	753.5	160.5	33.2	26.2	24.4	25.8	25.5	23.3	21.2	19.1	18.7
60°	756.3	152.7	30.4	22.6	22.3	22.6	21.6	17.7	14.9	13.4	12.7
62.5°	740.0	141.4	27.9	19.4	19.4	19.1	16.3	12.0	9.5	8.5	8.1
65°	686.3	119.2	25.5	16.3	15.9	15.2	11.0	8.1	6.4	5.3	5.0
67.5°	580.6	92.3	23.0	13.4	12.7	10.6	7.1	5.3	3.5	3.2	2.8
70°	396.0	57.3	19.4	10.6	9.5	6.7	4.2	3.2	2.1	1.8	1.4
72.5°	143.6	33.2	16.3	8.1	6.4	4.2	2.5	1.4	1.1	1.1	0.7
75°	33.9	23.3	12.4	6.0	4.2	2.5	1.4	1.1	0.7	0.7	0.4
77.5°	15.6	18.0	8.1	3.5	2.8	1.8	1.1	0.7	0.4	0.4	0.0
80°	8.8	12.7	3.9	2.5	2.1	1.4	0.7	0.4	0.4	0.0	0.0
82.5°	4.6	7.1	2.8	2.1	1.8	1.1	0.7	0.0	0.0	0.0	0.0
85°	3.2	3.5	2.1	1.8	1.4	1.1	0.7	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.1	1.8	1.4	1.1	0.4	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)