

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: P401089

Luminaire Tested: **ENV-SA1B-730-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-730-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2524 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.4
Input Voltage (V): NR
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

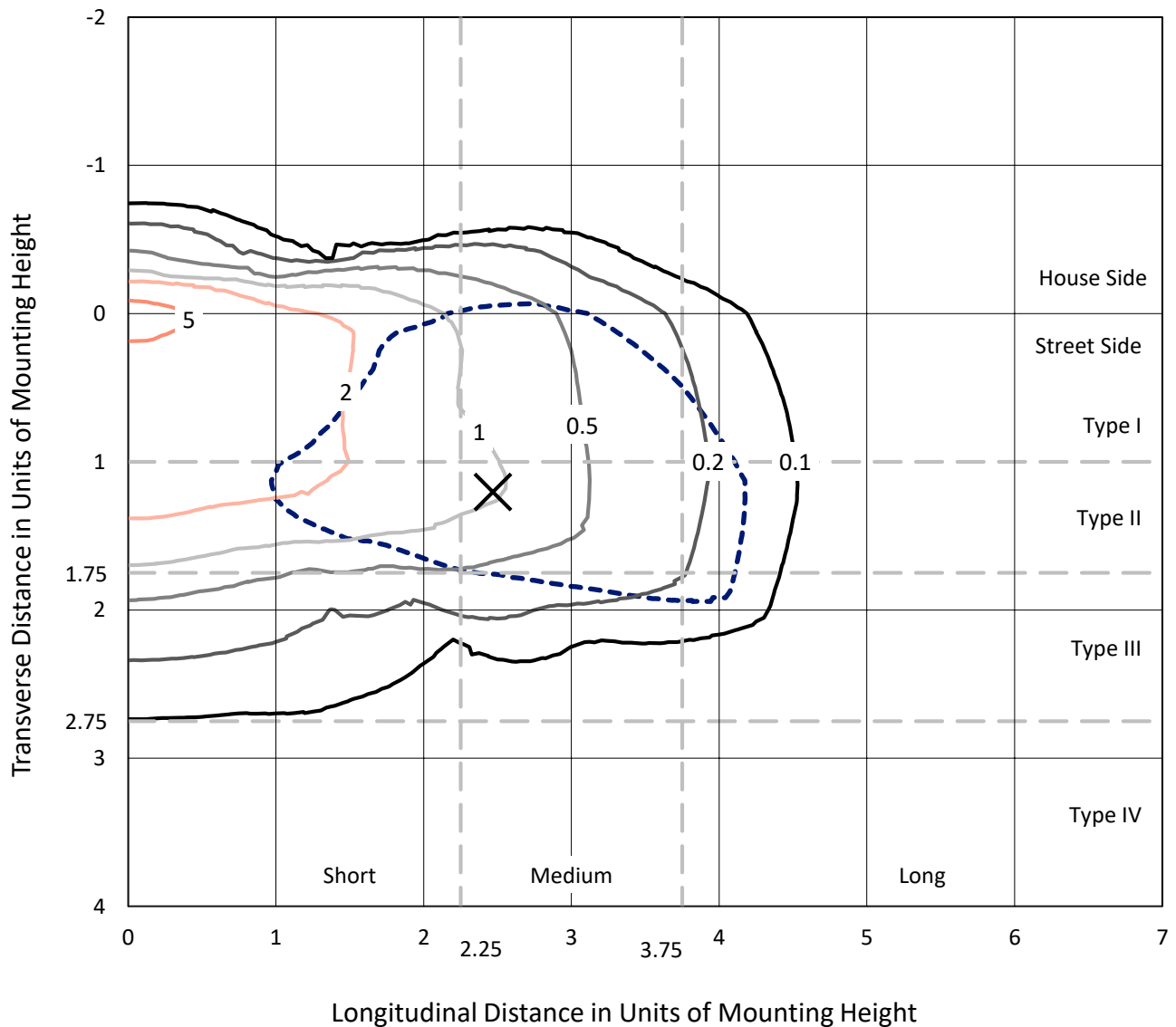


REPORT NUMBER: P401089

CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

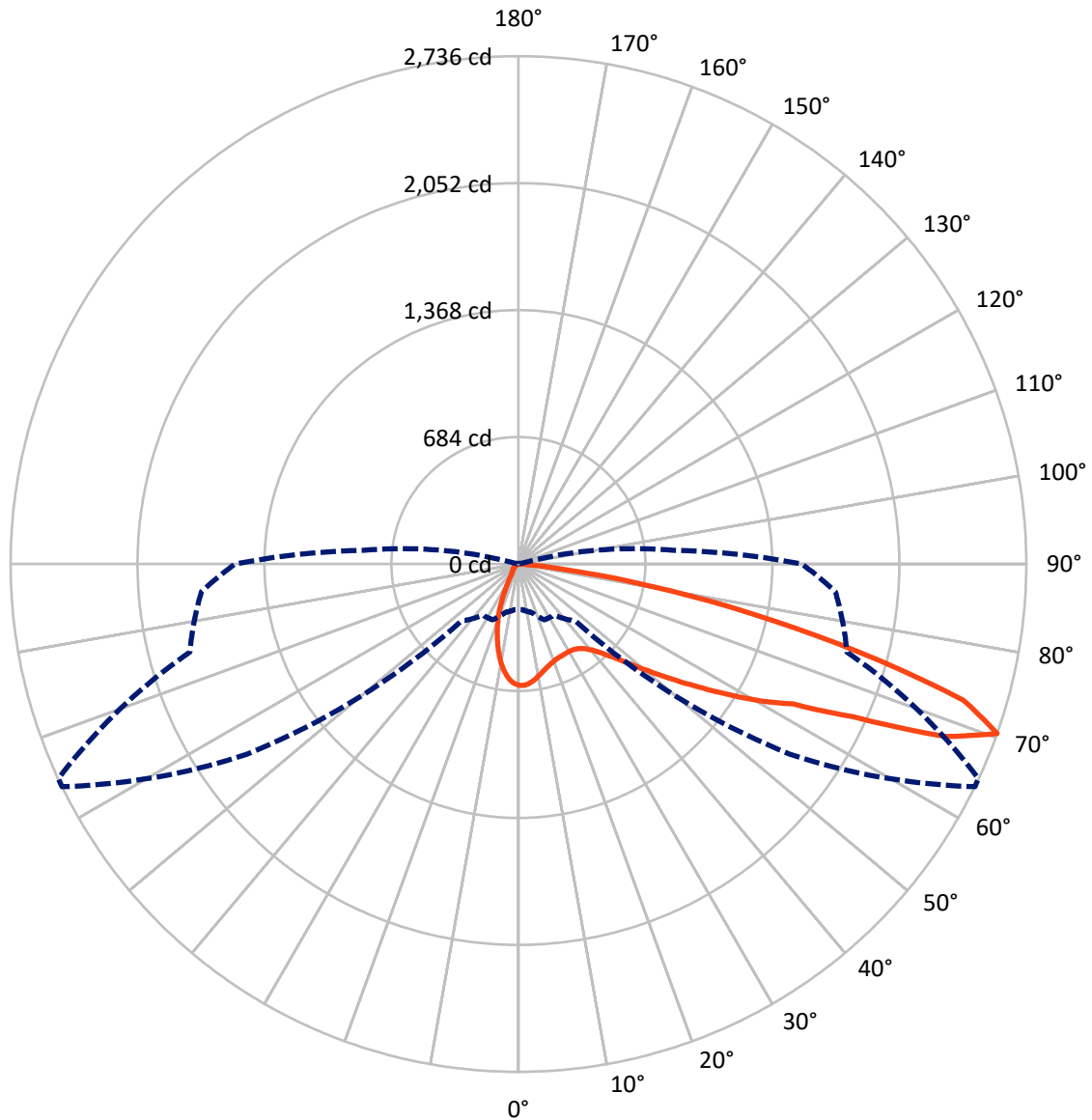


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P401089

CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P401089

CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	324.3	0.0	324.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2199.8	0.0	2199.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	2524.0	0.0	2524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	2.2
10°-20°	122.2	4.8
20°-30°	168.3	6.7
30°-40°	231.7	9.2
40°-50°	345.3	13.7
50°-60°	545.6	21.6
60°-70°	618.2	24.5
70°-80°	405.9	16.1
80°-90°	31.8	1.3
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°	2524.0	100.0
0°-180°	2524.0	100.0



REPORT NUMBER: P401089

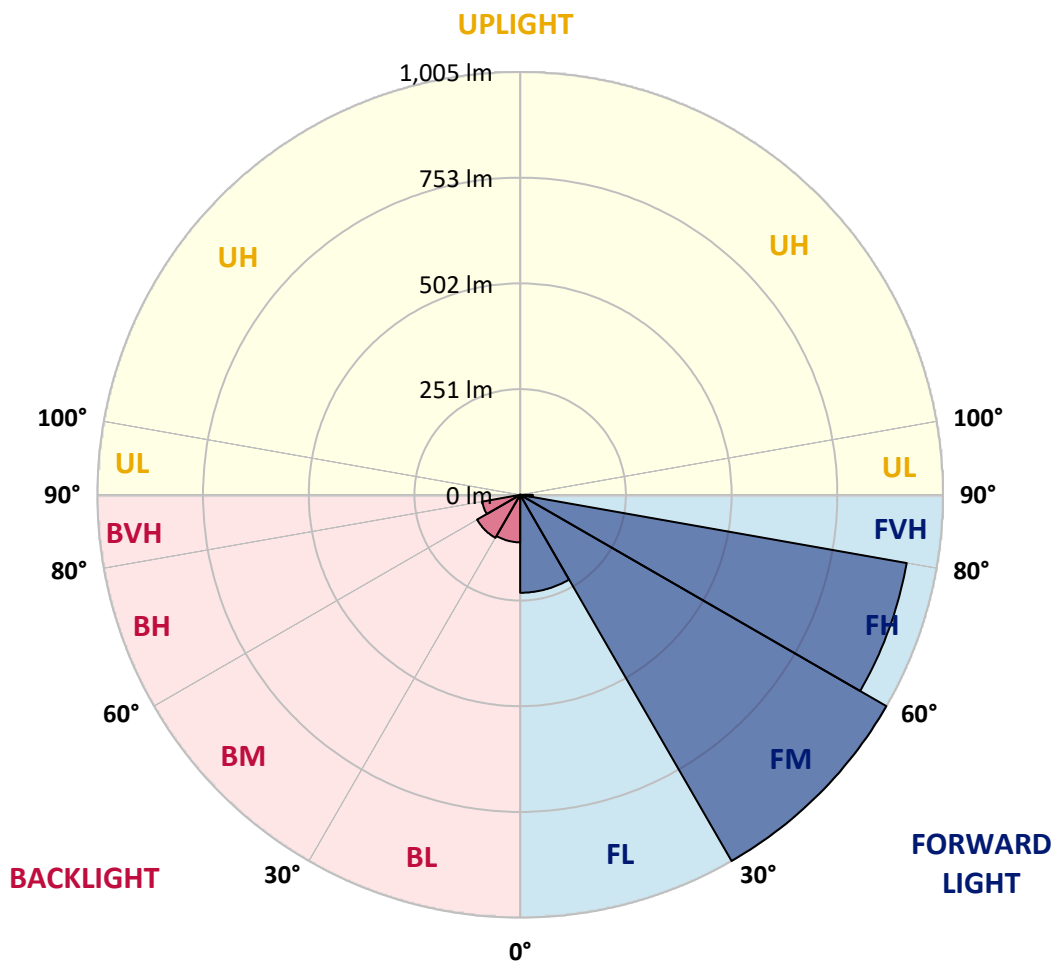
CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.7	9.2			
FM	(30°-60°)	1004.5	39.8			
FH	(60°-80°)	932.5	36.9			G1/1800
FVH	(80°-90°)	30.1	1.2			G1/100
BL	(0°-30°)	112.9	4.5	B1/500		
BM	(30°-60°)	118.1	4.7	B0/220		
BH	(60°-80°)	91.5	3.6	B0/110		G0/110
BVH	(80°-90°)	1.8	0.1			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 III Medium





REPORT NUMBER: P401089

CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4
2.5°	635.2	635.2	638.3	641.4	643.2	648.0	651.6	654.3	654.3	656.0	652.9
5°	593.0	593.0	595.7	603.2	611.2	621.4	633.0	644.5	646.7	655.1	654.7
7.5°	553.9	557.5	561.9	569.5	577.9	593.0	609.0	629.0	631.2	651.6	656.0
10°	526.9	529.1	531.7	540.2	552.6	569.9	587.2	610.8	614.8	645.4	656.0
12.5°	505.1	505.6	509.6	518.9	530.9	547.7	567.3	593.0	597.9	634.3	654.3
15°	489.6	489.1	493.6	502.5	514.0	531.3	550.4	577.5	582.8	625.0	653.8
17.5°	480.3	480.7	484.3	490.9	502.0	518.4	538.0	564.6	569.9	617.4	656.0
20°	480.3	480.3	482.5	485.6	494.0	508.7	527.8	555.3	560.6	612.5	659.1
22.5°	489.6	488.7	490.5	487.8	491.8	502.0	521.5	549.1	554.8	610.3	664.0
25°	506.4	504.7	506.0	500.2	495.8	500.2	517.5	546.4	552.6	610.8	668.5
27.5°	530.0	530.0	527.3	519.3	508.2	503.3	517.1	544.6	550.8	610.8	671.6
30°	562.8	561.5	557.5	549.5	532.2	515.8	521.5	544.6	550.8	611.2	672.5
32.5°	595.7	596.6	598.8	590.8	567.3	537.1	532.2	548.6	553.9	610.8	671.1
35°	629.0	629.4	639.2	640.1	609.9	571.3	550.4	559.3	562.8	615.2	672.0
37.5°	658.3	660.5	679.6	688.9	664.0	615.2	579.2	579.2	581.0	627.2	677.3
40°	691.1	696.9	719.9	740.8	731.0	671.6	621.4	608.5	609.4	648.9	689.3
42.5°	729.3	736.4	766.6	796.7	796.3	740.8	674.7	655.1	656.0	686.7	713.7
45°	777.7	782.5	820.7	858.4	866.4	817.2	741.7	716.0	716.8	743.9	761.2
47.5°	836.7	842.5	879.3	924.6	945.0	909.0	828.7	800.7	798.1	817.2	829.6
50°	913.9	925.0	946.8	990.3	1039.5	1015.6	930.8	902.8	899.3	914.4	918.4
52.5°	987.6	997.8	1006.7	1046.6	1142.1	1147.8	1056.0	1025.3	1021.8	1025.3	1030.2
55°	998.7	1004.5	1011.1	1065.3	1225.1	1316.1	1198.4	1162.0	1151.8	1145.2	1161.6
57.5°	910.4	906.8	929.0	1002.7	1238.8	1502.0	1391.1	1320.5	1310.7	1273.9	1257.5
60°	720.8	716.0	736.8	837.6	1161.6	1594.4	1658.3	1495.8	1471.9	1348.5	1332.5
62.5°	506.4	500.7	527.8	587.2	901.0	1576.2	1959.7	1661.8	1614.3	1414.6	1392.8
65°	390.2	387.5	402.1	415.5	549.9	1365.3	2125.7	1985.8	1887.8	1486.5	1458.5
67.5°	305.8	309.4	327.6	366.2	355.1	850.9	2110.1	2480.3	2382.2	1618.8	1601.0
70°	245.9	246.8	269.4	331.1	335.1	433.2	1786.6	2736.0	2734.6	1832.3	1714.2
72.5°	148.7	152.7	189.5	286.3	338.2	331.6	1201.1	2506.9	2541.6	1882.0	1546.0
75°	71.5	75.5	98.1	192.2	336.0	322.7	649.8	1898.0	1942.4	1687.6	1253.5
77.5°	26.6	30.2	45.3	94.1	249.0	295.6	341.8	1279.7	1314.7	1235.3	849.1
80°	8.4	9.8	17.8	43.1	126.5	244.1	220.2	721.7	745.2	540.6	285.4
82.5°	0.9	1.3	4.9	14.6	48.8	124.3	129.2	271.6	283.6	105.6	57.7
85°	0.0	0.0	0.0	0.0	0.9	0.9	32.0	51.9	42.6	10.2	16.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.3	1.8
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: P401089

CATALOG NUMBER: ENV-SA1B-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.4
2.5°	652.5	652.5	649.4	644.5	638.3	629.4	627.2	620.1	620.1	614.3	613.4
5°	653.4	650.7	640.5	625.4	604.5	581.9	567.7	552.2	538.9	530.4	531.3
7.5°	653.4	647.6	627.2	593.9	554.8	515.8	486.0	451.4	435.4	424.8	429.7
10°	651.6	641.8	606.3	555.7	494.0	439.9	391.0	351.1	323.6	312.0	302.3
12.5°	647.6	633.4	580.1	508.2	429.2	358.2	290.7	238.4	202.0	183.8	181.5
15°	644.0	624.5	549.5	456.3	356.0	263.2	187.8	137.6	106.5	99.4	100.3
17.5°	643.2	616.1	520.2	401.3	284.5	175.3	108.3	87.4	83.0	81.2	80.8
20°	643.6	608.5	488.3	346.7	201.5	109.2	82.1	77.2	75.5	74.6	74.1
22.5°	645.4	600.1	456.7	289.4	137.6	79.9	73.2	70.1	67.9	66.6	66.1
25°	645.4	590.8	421.7	228.6	90.1	70.1	65.7	61.7	58.6	56.8	56.8
27.5°	644.0	580.1	385.3	173.6	71.5	62.6	57.7	52.4	48.4	46.2	46.2
30°	640.1	567.3	350.2	121.2	62.6	55.9	49.7	43.1	38.2	36.0	35.1
32.5°	634.3	553.5	309.8	85.2	56.4	48.8	41.7	34.6	30.2	27.5	27.5
35°	628.1	539.7	266.3	65.2	51.0	43.1	35.1	28.0	24.0	22.2	21.7
37.5°	625.0	525.1	223.7	56.4	45.7	36.8	28.4	22.6	19.5	18.2	17.8
40°	627.2	514.0	182.0	50.6	40.8	31.1	23.5	19.1	16.4	14.6	14.6
42.5°	640.5	507.8	142.5	46.2	36.4	26.2	19.5	15.5	12.9	11.5	11.5
45°	667.6	512.2	108.3	42.2	31.1	21.7	16.4	12.4	9.8	8.4	8.4
47.5°	712.8	530.0	82.1	38.6	26.6	17.8	13.3	9.8	7.5	6.7	6.2
50°	779.0	565.0	64.4	35.1	22.2	15.1	11.1	7.5	5.8	4.9	4.9
52.5°	874.4	625.8	55.0	31.1	18.2	12.4	8.9	5.8	4.4	3.6	3.6
55°	991.6	703.1	49.7	27.5	14.6	10.2	7.1	4.4	3.1	2.7	2.2
57.5°	1086.6	764.3	46.6	24.0	12.4	8.9	5.3	3.6	2.7	1.8	1.8
60°	1170.5	803.8	41.3	20.0	10.7	7.1	4.4	2.7	1.8	1.3	1.3
62.5°	1238.4	829.6	34.2	16.0	8.9	5.8	3.6	2.2	1.8	1.3	1.3
65°	1315.6	850.4	28.0	12.4	7.5	4.9	3.1	1.8	1.3	1.3	1.3
67.5°	1467.0	897.0	20.9	9.8	5.8	4.0	2.7	1.8	1.3	0.9	0.9
70°	1526.0	842.5	16.4	8.0	4.4	3.6	2.7	1.8	0.9	0.9	0.9
72.5°	1298.7	630.7	12.9	6.7	4.0	3.1	2.7	1.8	1.3	1.3	0.9
75°	1030.2	426.1	10.2	5.3	4.0	3.6	2.7	2.7	2.2	1.8	1.8
77.5°	657.8	188.6	8.0	4.4	4.0	4.4	4.0	2.7	2.7	2.2	2.2
80°	196.2	45.3	5.8	3.6	3.1	3.6	4.0	2.7	1.8	1.3	1.3
82.5°	42.6	10.7	3.6	1.8	2.2	1.8	2.7	2.7	1.8	1.3	1.3
85°	14.2	4.0	2.2	1.8	1.3	1.3	1.3	1.3	1.3	1.3	0.9
87.5°	0.9	1.3	1.3	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9
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)