

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: P401179

Luminaire Tested: **ENV-SA1B-760-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401179
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-760-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 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: 2771 lumens
Efficiency: N/A
Efficacy: 109.1 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

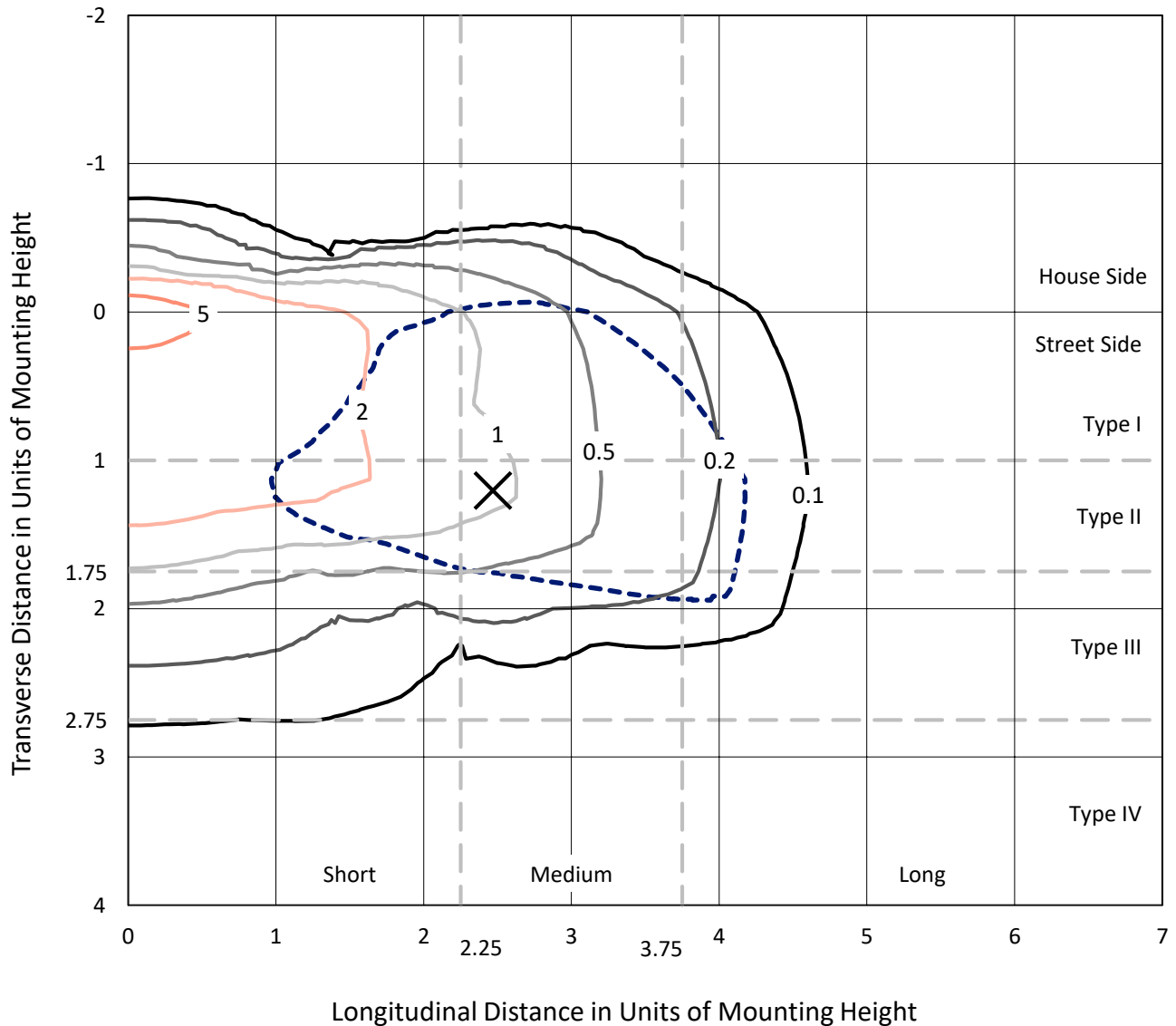


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

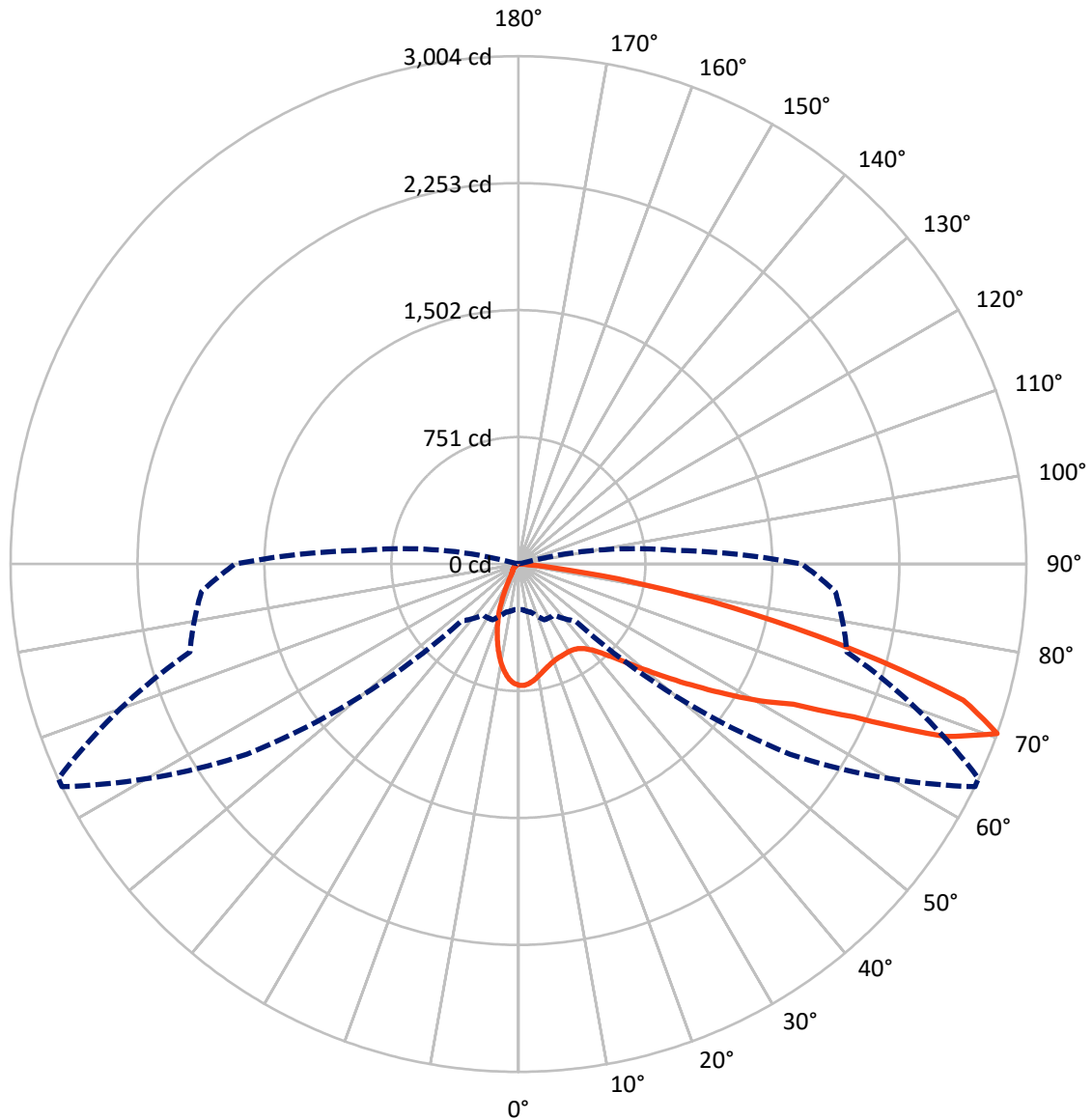


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	356.0	0.0	356.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2415.0	0.0	2415.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	2771.0	0.0	2771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	2.2
10°-20°	134.1	4.8
20°-30°	184.7	6.7
30°-40°	254.4	9.2
40°-50°	379.1	13.7
50°-60°	598.9	21.6
60°-70°	678.7	24.5
70°-80°	445.6	16.1
80°-90°	34.9	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°	2771.0	100.0
0°-180°	2771.0	100.0



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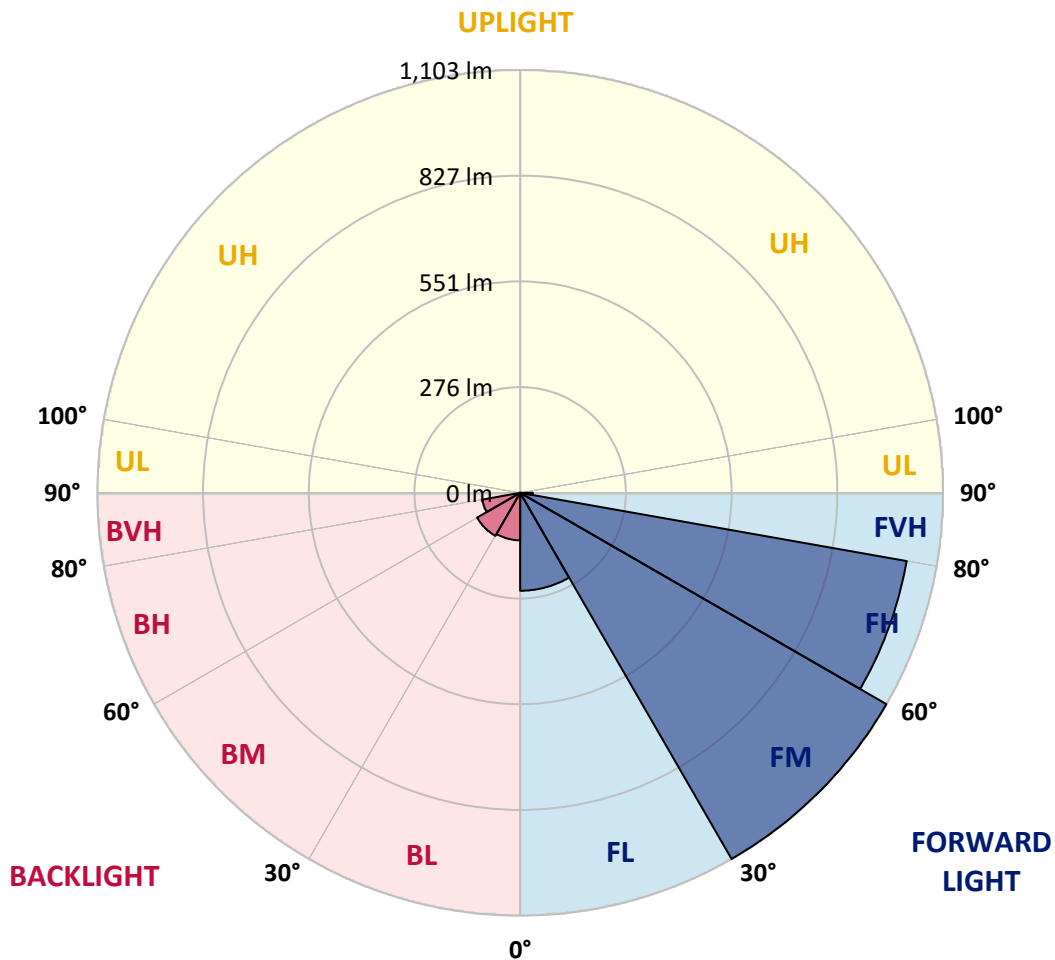
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.4	9.2			
FM	(30°-60°)	1102.8	39.8			
FH	(60°-80°)	1023.8	36.9			G1/1800
FVH	(80°-90°)	33.0	1.2			G1/100
BL	(0°-30°)	123.9	4.5	B1/500		
BM	(30°-60°)	129.6	4.7	B0/220		
BH	(60°-80°)	100.5	3.6	B0/110		G0/110
BVH	(80°-90°)	1.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3
2.5°	697.3	697.3	700.7	704.2	706.1	711.5	715.4	718.3	718.3	720.2	716.8
5°	651.0	651.0	654.0	662.2	671.0	682.2	694.9	707.6	710.0	719.3	718.8
7.5°	608.2	612.1	616.9	625.2	634.5	651.0	668.6	690.5	692.9	715.4	720.2
10°	578.4	580.9	583.8	593.0	606.7	625.7	644.7	670.5	674.9	708.5	720.2
12.5°	554.5	555.0	559.4	569.7	582.8	601.3	622.8	651.0	656.4	696.4	718.3
15°	537.5	537.0	541.9	551.6	564.3	583.3	604.3	634.0	639.8	686.1	717.8
17.5°	527.3	527.7	531.6	539.0	551.1	569.2	590.6	619.8	625.7	677.8	720.2
20°	527.3	527.3	529.7	533.1	542.4	558.4	579.4	609.6	615.5	672.5	723.6
22.5°	537.5	536.5	538.5	535.5	539.9	551.1	572.6	602.8	609.1	670.0	729.0
25°	556.0	554.1	555.5	549.2	544.3	549.2	568.2	599.9	606.7	670.5	733.9
27.5°	581.8	581.8	578.9	570.1	558.0	552.6	567.7	597.9	604.7	670.5	737.3
30°	617.9	616.4	612.1	603.3	584.3	566.2	572.6	597.9	604.7	671.0	738.3
32.5°	654.0	654.9	657.4	648.6	622.8	589.6	584.3	602.3	608.2	670.5	736.8
35°	690.5	691.0	701.7	702.7	669.6	627.2	604.3	614.0	617.9	675.4	737.8
37.5°	722.7	725.1	746.1	756.3	729.0	675.4	635.9	635.9	637.9	688.6	743.6
40°	758.7	765.1	790.4	813.3	802.6	737.3	682.2	668.1	669.1	712.4	756.8
42.5°	800.6	808.4	841.6	874.7	874.2	813.3	740.7	719.3	720.2	753.9	783.6
45°	853.8	859.1	901.0	942.4	951.2	897.1	814.3	786.0	787.0	816.7	835.7
47.5°	918.6	924.9	965.3	1015.0	1037.5	998.0	909.8	879.1	876.2	897.1	910.8
50°	1003.4	1015.5	1039.4	1087.2	1141.3	1114.9	1021.9	991.2	987.3	1003.8	1008.2
52.5°	1084.2	1095.5	1105.2	1149.1	1253.8	1260.2	1159.3	1125.7	1121.8	1125.7	1131.0
55°	1096.4	1102.8	1110.1	1169.5	1345.0	1444.8	1315.7	1275.8	1264.5	1257.2	1275.3
57.5°	999.5	995.6	1019.9	1100.8	1360.1	1649.0	1527.2	1449.7	1439.0	1398.6	1380.5
60°	791.4	786.0	808.9	919.5	1275.3	1750.4	1820.6	1642.2	1615.9	1480.4	1462.9
62.5°	556.0	549.7	579.4	644.7	989.2	1730.4	2151.4	1824.5	1772.3	1553.0	1529.2
65°	428.3	425.4	441.5	456.1	603.8	1498.9	2333.7	2180.2	2072.5	1632.0	1601.3
67.5°	335.8	339.6	359.6	402.0	389.8	934.2	2316.6	2723.0	2615.3	1777.2	1757.7
70°	270.0	270.9	295.8	363.5	367.9	475.6	1961.4	3003.7	3002.3	2011.6	1882.0
72.5°	163.2	167.6	208.1	314.3	371.3	364.0	1318.6	2752.3	2790.3	2066.2	1697.3
75°	78.5	82.8	107.7	211.0	368.9	354.3	713.4	2083.7	2132.4	1852.7	1376.1
77.5°	29.2	33.1	49.7	103.3	273.4	324.5	375.2	1404.9	1443.4	1356.2	932.2
80°	9.3	10.7	19.5	47.3	138.9	268.0	241.7	792.4	818.2	593.5	313.3
82.5°	1.0	1.5	5.4	16.1	53.6	136.4	141.8	298.2	311.4	116.0	63.3
85°	0.0	0.0	0.0	0.0	1.0	1.0	35.1	57.0	46.8	11.2	18.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.5	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3
2.5°	716.3	716.3	712.9	707.6	700.7	691.0	688.6	680.8	680.8	674.4	673.5
5°	717.3	714.4	703.2	686.6	663.7	638.9	623.3	606.2	591.6	582.3	583.3
7.5°	717.3	711.0	688.6	652.0	609.1	566.2	533.6	495.6	478.0	466.3	471.7
10°	715.4	704.6	665.7	610.1	542.4	482.9	429.3	385.5	355.2	342.6	331.9
12.5°	711.0	695.4	636.9	558.0	471.2	393.3	319.2	261.7	221.7	201.7	199.3
15°	707.1	685.6	603.3	500.9	390.8	289.0	206.1	151.1	117.0	109.2	110.1
17.5°	706.1	676.4	571.1	440.5	312.4	192.5	118.9	96.0	91.1	89.2	88.7
20°	706.6	668.1	536.0	380.6	221.2	119.9	90.2	84.8	82.8	81.9	81.4
22.5°	708.5	658.8	501.4	317.7	151.1	87.7	80.4	77.0	74.6	73.1	72.6
25°	708.5	648.6	462.9	251.0	98.9	77.0	72.1	67.7	64.3	62.4	62.4
27.5°	707.1	636.9	423.0	190.5	78.5	68.7	63.3	57.5	53.1	50.7	50.7
30°	702.7	622.8	384.5	133.0	68.7	61.4	54.6	47.3	41.9	39.5	38.5
32.5°	696.4	607.7	340.1	93.6	61.9	53.6	45.8	38.0	33.1	30.2	30.2
35°	689.5	592.6	292.4	71.6	56.0	47.3	38.5	30.7	26.3	24.4	23.9
37.5°	686.1	576.5	245.6	61.9	50.2	40.4	31.2	24.9	21.4	20.0	19.5
40°	688.6	564.3	199.8	55.6	44.8	34.1	25.8	21.0	18.0	16.1	16.1
42.5°	703.2	557.5	156.4	50.7	40.0	28.8	21.4	17.1	14.1	12.7	12.7
45°	732.9	562.3	118.9	46.3	34.1	23.9	18.0	13.6	10.7	9.3	9.3
47.5°	782.6	581.8	90.2	42.4	29.2	19.5	14.6	10.7	8.3	7.3	6.8
50°	855.2	620.3	70.7	38.5	24.4	16.6	12.2	8.3	6.3	5.4	5.4
52.5°	960.0	687.1	60.4	34.1	20.0	13.6	9.7	6.3	4.9	3.9	3.9
55°	1088.6	771.9	54.6	30.2	16.1	11.2	7.8	4.9	3.4	2.9	2.4
57.5°	1192.9	839.1	51.2	26.3	13.6	9.7	5.8	3.9	2.9	1.9	1.9
60°	1285.0	882.5	45.3	21.9	11.7	7.8	4.9	2.9	1.9	1.5	1.5
62.5°	1359.6	910.8	37.5	17.5	9.7	6.3	3.9	2.4	1.9	1.5	1.5
65°	1444.4	933.7	30.7	13.6	8.3	5.4	3.4	1.9	1.5	1.5	1.5
67.5°	1610.5	984.8	22.9	10.7	6.3	4.4	2.9	1.9	1.5	1.0	1.0
70°	1675.3	924.9	18.0	8.8	4.9	3.9	2.9	1.9	1.0	1.0	1.0
72.5°	1425.8	692.5	14.1	7.3	4.4	3.4	2.9	1.9	1.5	1.5	1.0
75°	1131.0	467.8	11.2	5.8	4.4	3.9	2.9	2.9	2.4	1.9	1.9
77.5°	722.2	207.1	8.8	4.9	4.4	4.9	4.4	2.9	2.9	2.4	2.4
80°	215.4	49.7	6.3	3.9	3.4	3.9	4.4	2.9	1.9	1.5	1.5
82.5°	46.8	11.7	3.9	1.9	2.4	1.9	2.9	2.9	1.9	1.5	1.5
85°	15.6	4.4	2.4	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.0
87.5°	1.0	1.5	1.5	1.0	1.0	1.0	1.0	0.5	0.5	1.0	1.0
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)