

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: P401351

Luminaire Tested: **ENV-SA1C-750-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-750-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 33.3
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

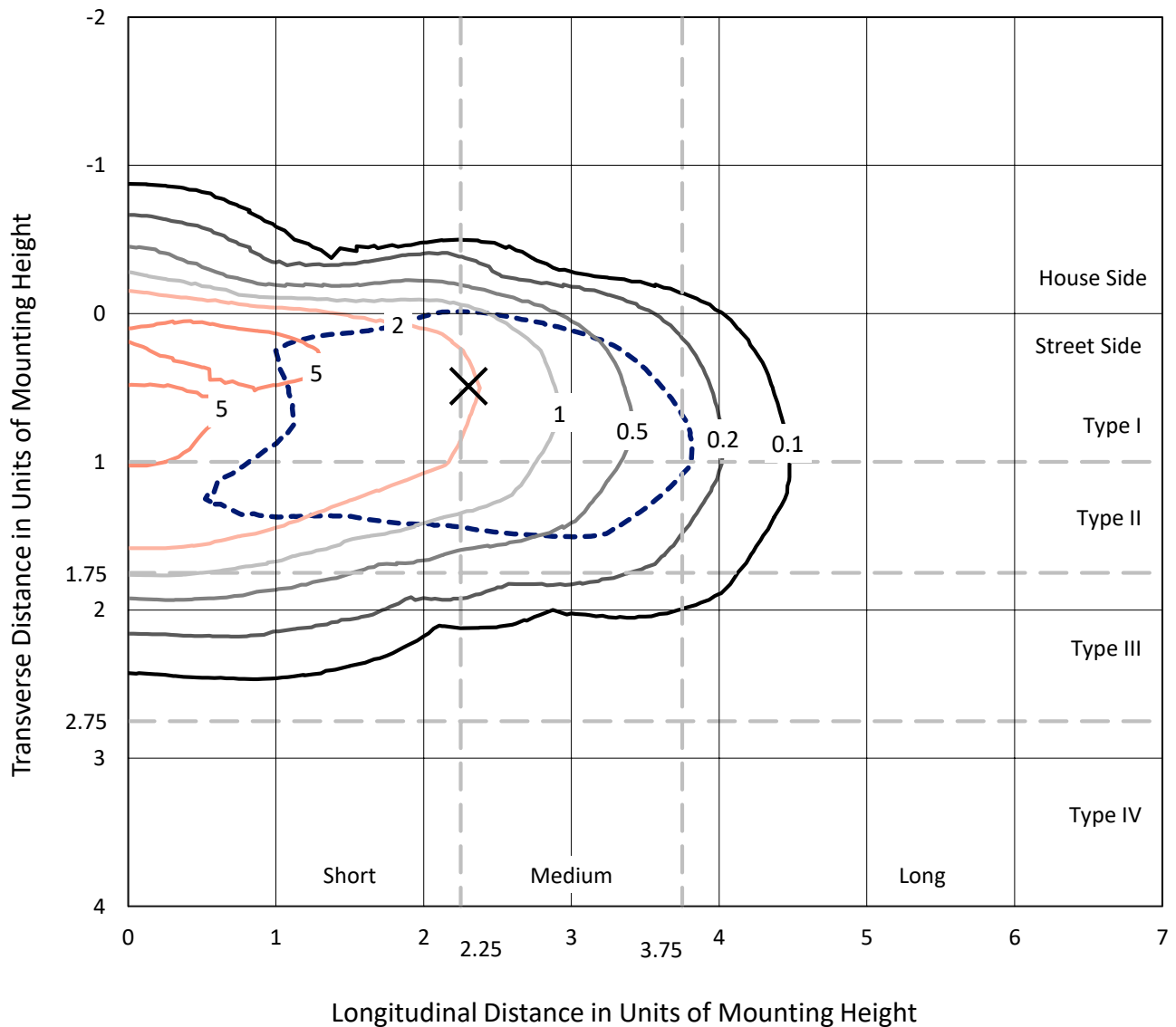


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

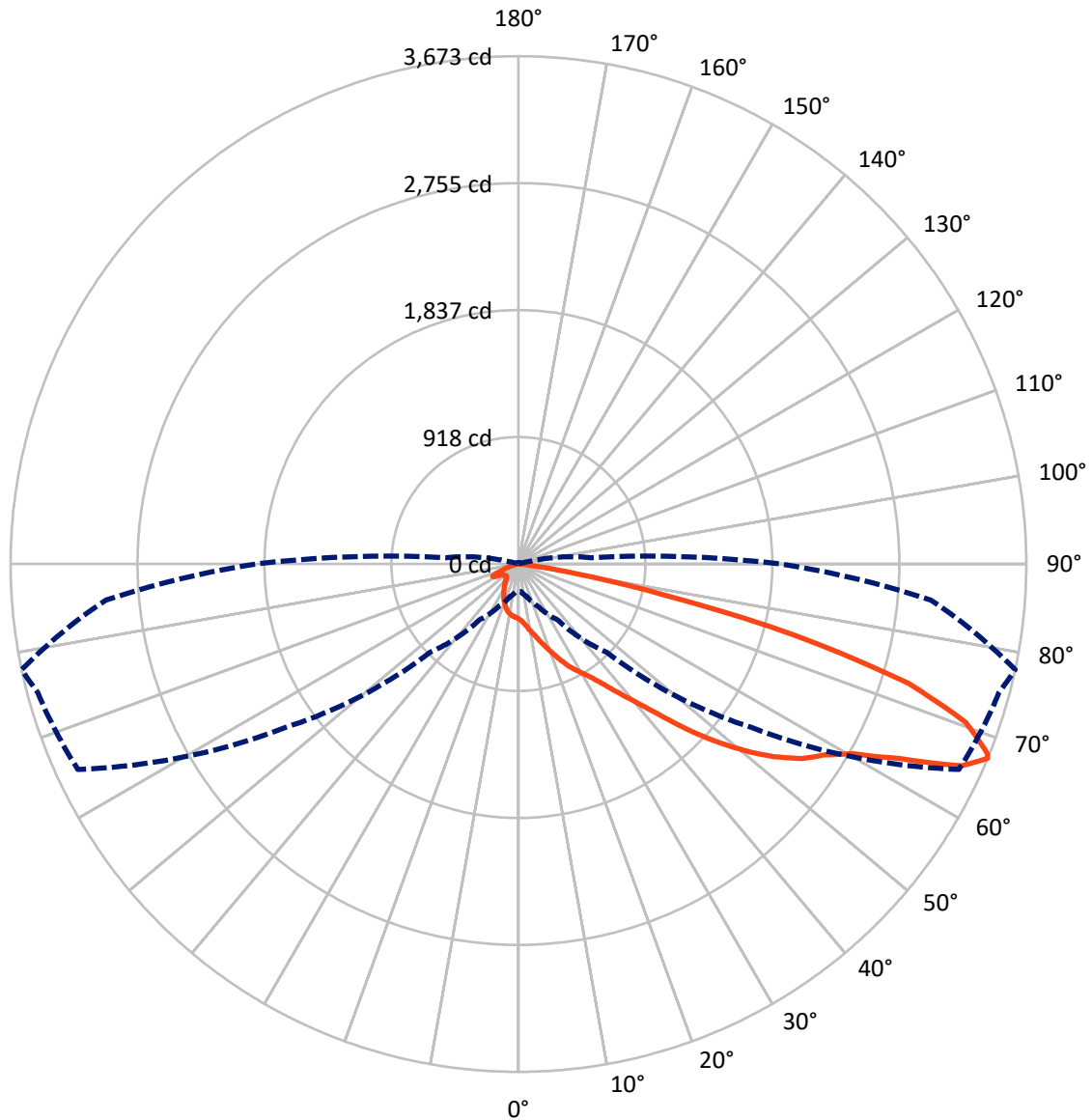


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	240.9	0.0	240.9
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	3173.1	0.0	3173.1
	% Fixture	92.9	0.0	92.9
Total	Lumens	3414.0	0.0	3414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.1
10°-20°	109.4	3.2
20°-30°	193.4	5.7
30°-40°	340.9	10.0
40°-50°	585.9	17.2
50°-60°	882.0	25.8
60°-70°	868.0	25.4
70°-80°	379.3	11.1
80°-90°	16.8	0.5
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°	3414.0	100.0
0°-180°	3414.0	100.0

Coefficient of Utilization



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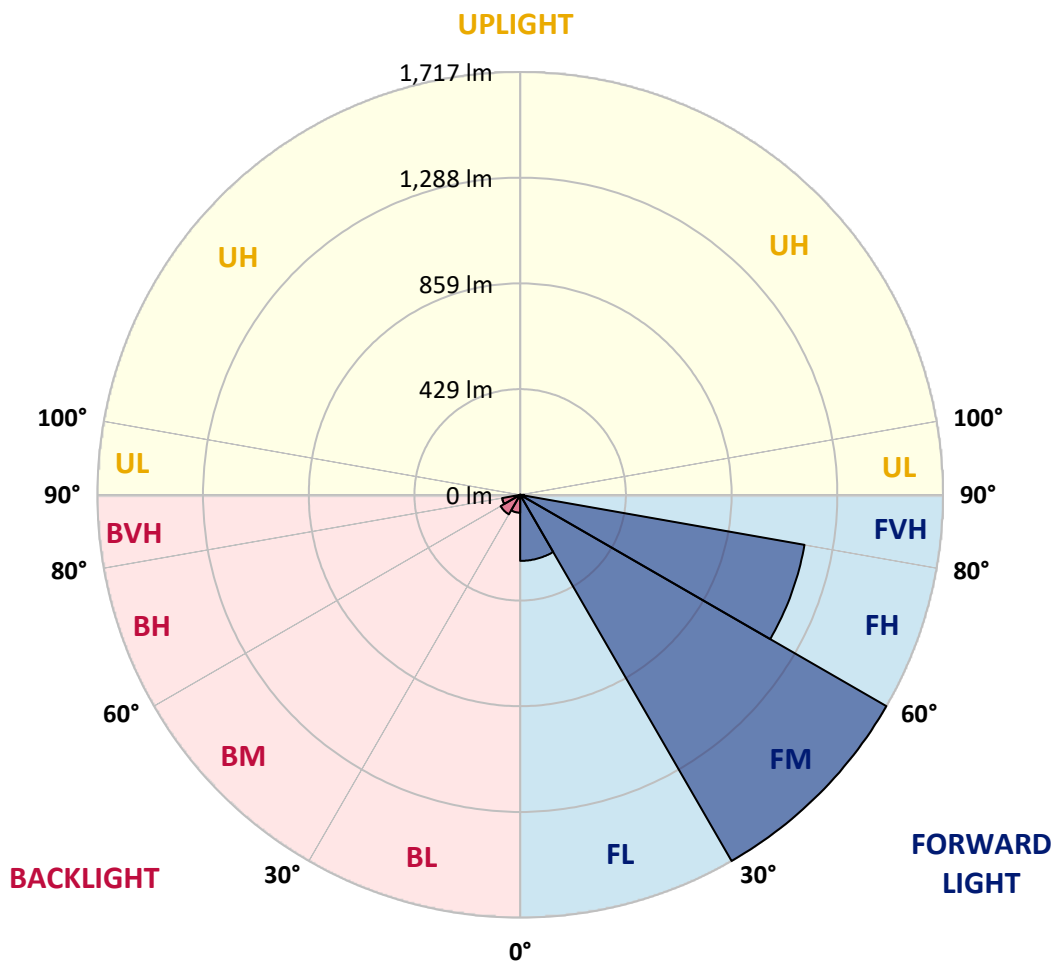
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.2	7.9			
FM	(30°-60°)	1717.3	50.3			
FH	(60°-80°)	1172.5	34.3			G1/1800
FVH	(80°-90°)	15.1	0.4			G1/100
BL	(0°-30°)	72.8	2.1	B0/110		
BM	(30°-60°)	91.6	2.7	B0/220		
BH	(60°-80°)	74.7	2.2	B0/110		G0/110
BVH	(80°-90°)	1.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	454.8	456.7	454.1	452.2	447.1	440.6	434.2	424.6	414.3	410.5	404.1
5°	510.6	510.6	510.6	505.4	500.9	488.7	474.0	459.2	440.0	432.9	418.2
7.5°	540.1	540.7	542.6	542.6	540.1	531.7	515.7	499.0	470.1	460.5	436.8
10°	543.3	545.8	551.0	558.7	564.4	568.9	559.3	541.3	506.7	495.2	460.5
12.5°	534.9	536.2	544.5	558.7	577.3	595.9	596.5	585.6	547.1	531.1	489.4
15°	515.7	517.6	529.8	552.2	581.1	614.5	633.7	630.5	594.6	576.0	521.5
17.5°	484.9	486.8	502.2	535.6	577.9	626.6	667.7	683.7	641.4	623.4	554.2
20°	483.6	484.3	490.0	515.0	565.1	633.7	701.0	738.9	698.5	679.2	592.7
22.5°	565.7	560.6	547.8	531.7	553.5	631.8	731.2	797.3	769.0	738.9	636.9
25°	657.4	659.4	645.2	607.4	579.8	628.6	754.3	863.3	835.1	805.0	682.4
27.5°	753.6	750.4	738.3	703.6	657.4	651.7	771.0	916.6	898.6	862.0	722.9
30°	847.3	844.7	835.7	800.5	750.4	711.3	783.8	964.7	958.9	918.5	755.6
32.5°	954.4	958.9	947.3	901.2	840.2	792.1	811.4	1015.3	1032.0	982.6	789.6
35°	1078.8	1078.8	1055.1	1012.8	949.9	882.6	866.5	1071.1	1125.0	1071.8	843.4
37.5°	1181.5	1189.8	1175.7	1114.8	1055.7	985.2	950.6	1139.8	1239.8	1185.9	915.9
40°	1262.3	1276.4	1277.0	1216.7	1162.2	1116.0	1067.9	1236.6	1384.1	1314.9	1002.5
42.5°	1337.3	1339.9	1350.8	1316.2	1261.6	1249.4	1200.1	1351.4	1564.4	1482.9	1118.0
45°	1432.9	1438.0	1431.6	1405.9	1359.1	1375.2	1347.6	1497.0	1767.1	1698.4	1253.9
47.5°	1573.4	1585.5	1575.9	1529.7	1472.7	1502.8	1482.9	1642.0	1996.0	1912.7	1401.5
50°	1704.8	1714.5	1724.7	1710.0	1652.9	1624.0	1599.7	1795.3	2192.3	2121.7	1546.4
52.5°	1719.0	1727.9	1784.4	1836.3	1874.2	1798.5	1722.2	1950.5	2373.8	2314.8	1679.2
55°	1627.2	1633.0	1727.3	1829.9	2003.7	2029.4	1902.4	2103.8	2525.8	2485.4	1768.3
57.5°	1372.0	1396.3	1530.4	1687.5	1971.7	2166.6	2158.3	2282.1	2624.6	2606.0	1883.1
60°	901.2	928.1	1088.5	1326.4	1735.6	2130.1	2439.2	2549.6	2763.1	2783.7	2084.5
62.5°	466.9	498.4	639.5	850.5	1257.8	1854.9	2534.8	2988.9	3028.7	3098.6	2443.7
65°	266.8	273.2	343.8	498.4	778.7	1328.3	2420.0	3423.8	3378.3	3520.0	2902.3
67°	198.2	198.2	247.6	338.7	493.2	903.1	2064.0	3515.5	3598.3	3673.3	2994.7
67.5°	177.7	187.3	229.6	312.4	442.6	801.1	1931.3	3491.1	3612.4	3659.2	2962.6
70°	121.9	128.3	164.8	223.8	298.3	416.9	1266.1	3087.7	3480.2	3432.8	2684.9
72.5°	73.1	75.7	109.0	161.0	222.6	223.2	690.8	2343.7	2949.2	2948.5	2192.9
75°	45.5	48.1	64.1	107.8	155.9	139.8	319.4	1594.5	2117.9	2076.9	1469.4
77.5°	25.7	29.5	38.5	59.0	98.8	89.2	134.7	893.5	1144.3	1073.7	729.9
80°	10.3	12.2	21.8	28.2	55.8	53.2	55.2	314.3	463.1	417.6	244.4
82.5°	2.6	3.2	7.7	13.5	21.8	21.8	17.3	85.9	109.7	102.0	62.9
85°	0.0	0.0	0.6	0.6	0.6	1.3	4.5	9.6	11.5	13.5	10.3
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	1.3	1.9	1.9	1.9	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°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	399.0	394.5	385.5	375.9	366.2	358.5	352.1	343.1	341.9	341.9	341.9
5°	407.3	397.0	376.5	356.0	335.5	316.9	303.4	292.5	282.9	279.7	282.2
7.5°	419.5	400.9	365.0	329.0	297.0	270.7	251.4	236.0	229.0	225.1	221.9
10°	435.5	406.6	349.6	297.0	256.6	225.1	204.6	189.9	182.8	178.3	179.0
12.5°	452.8	411.1	330.3	262.3	217.4	188.6	171.3	159.1	147.5	140.5	142.4
15°	470.1	414.3	306.6	230.3	187.3	161.6	137.3	115.5	107.8	106.5	105.8
17.5°	489.4	413.7	280.3	200.1	161.6	125.7	101.3	98.8	98.1	98.1	97.5
20°	509.3	410.5	250.1	175.1	136.0	95.6	91.7	90.4	88.5	87.9	87.2
22.5°	531.1	404.7	222.6	153.3	101.3	87.2	82.1	78.3	75.0	73.1	73.8
25°	551.0	393.8	195.6	132.8	86.6	78.3	71.2	65.4	62.2	59.7	60.3
27.5°	564.4	374.6	172.5	107.1	79.5	69.3	60.9	55.2	50.7	48.7	48.7
30°	565.7	347.0	152.0	87.9	72.5	60.9	52.0	45.5	43.0	41.7	41.0
32.5°	564.4	318.8	136.6	80.8	66.1	53.2	44.3	39.8	37.2	35.9	35.9
35°	570.8	289.9	122.5	74.4	59.0	46.8	39.1	34.6	32.7	31.4	31.4
37.5°	590.1	270.0	107.8	68.0	52.6	41.0	35.3	31.4	29.5	28.2	28.2
40°	616.4	253.4	89.8	61.6	46.2	37.2	32.1	28.9	26.3	25.0	25.0
42.5°	662.6	246.9	75.0	55.2	40.4	33.4	29.5	25.7	23.1	21.8	21.8
45°	731.2	250.1	68.6	49.4	36.6	30.1	26.3	22.4	19.9	19.2	19.2
47.5°	806.9	263.6	64.1	44.3	33.4	28.2	23.7	19.9	17.3	16.7	16.7
50°	891.5	284.8	60.3	39.1	30.1	25.7	21.2	17.3	15.4	14.8	14.8
52.5°	972.4	311.7	56.4	35.3	28.2	23.1	18.6	15.4	14.1	13.5	13.5
55°	1033.9	329.0	53.2	32.7	26.3	21.2	16.7	14.8	12.8	12.2	12.2
57.5°	1119.9	357.9	49.4	29.5	23.7	19.2	15.4	13.5	11.5	11.5	11.5
60°	1294.3	435.5	43.6	26.9	21.2	17.3	14.8	12.2	10.9	10.3	10.3
62.5°	1608.6	563.8	37.8	25.0	18.6	15.4	12.8	10.9	9.6	8.3	8.3
65°	1911.4	617.0	32.1	21.8	16.7	13.5	11.5	9.6	7.1	5.8	5.8
67°	1894.7	527.9	26.9	18.6	14.1	12.2	9.6	7.7	5.1	3.2	3.2
67.5°	1849.8	491.3	26.3	18.0	13.5	11.5	9.6	7.1	4.5	2.6	2.6
70°	1572.1	343.8	20.5	14.1	11.5	10.3	7.7	5.1	2.6	1.3	1.3
72.5°	1277.0	272.6	16.0	11.5	9.6	7.7	6.4	3.2	1.9	0.6	0.6
75°	903.1	167.4	14.1	10.3	7.7	5.8	5.1	3.2	1.9	1.3	0.6
77.5°	445.8	77.0	11.5	9.0	7.1	5.8	4.5	3.8	3.2	2.6	1.3
80°	130.8	25.0	7.7	6.4	6.4	5.8	5.1	4.5	3.8	3.2	1.9
82.5°	29.5	9.0	2.6	3.2	4.5	4.5	4.5	3.2	2.6	1.3	0.6
85°	3.8	1.9	1.9	1.9	2.6	2.6	1.9	1.3	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.3	0.6	0.6	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)