

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: P401092

Luminaire Tested: **ENT-SA1B-730-U-SL3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1B-730-U-SL3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3063 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

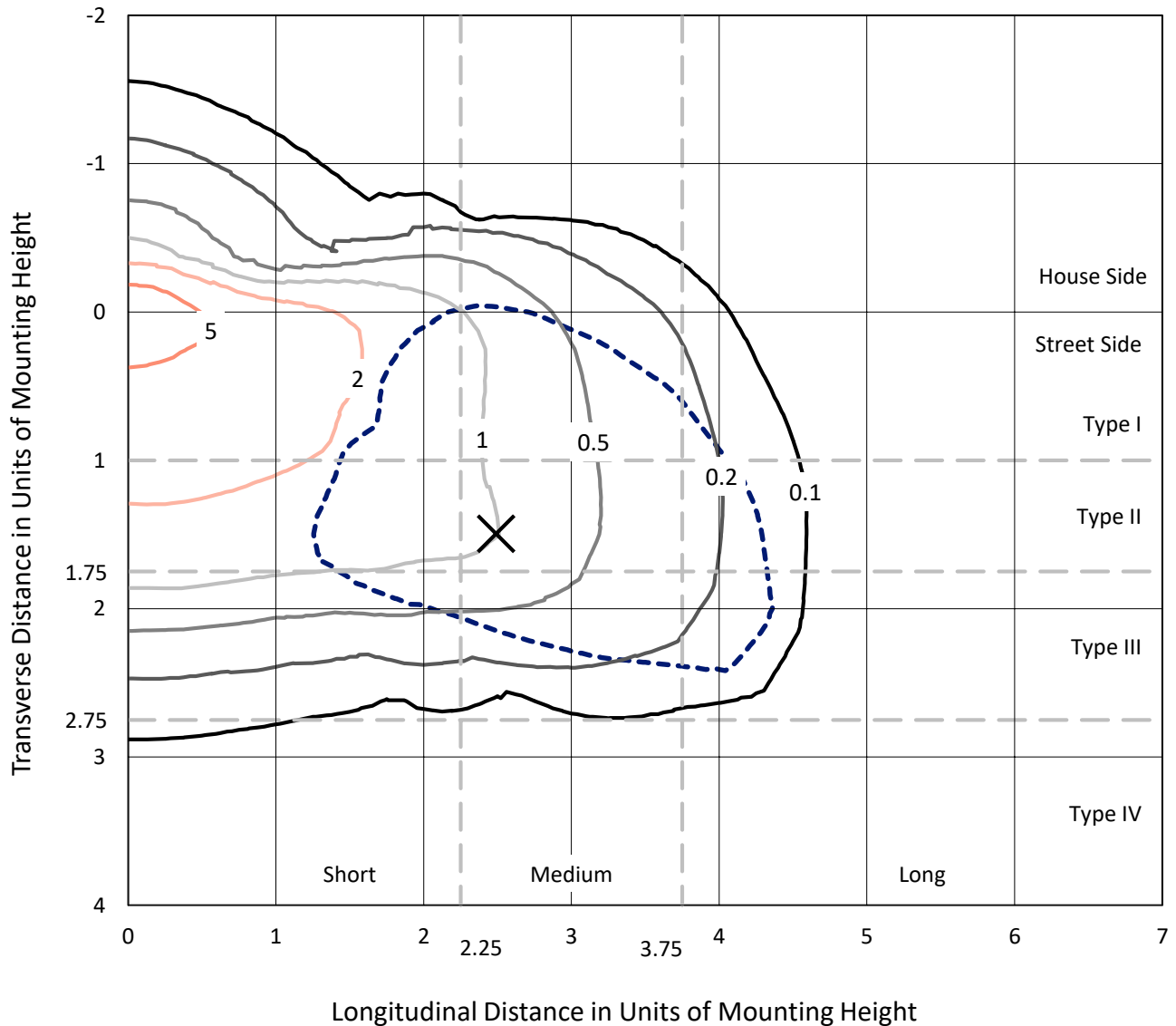


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

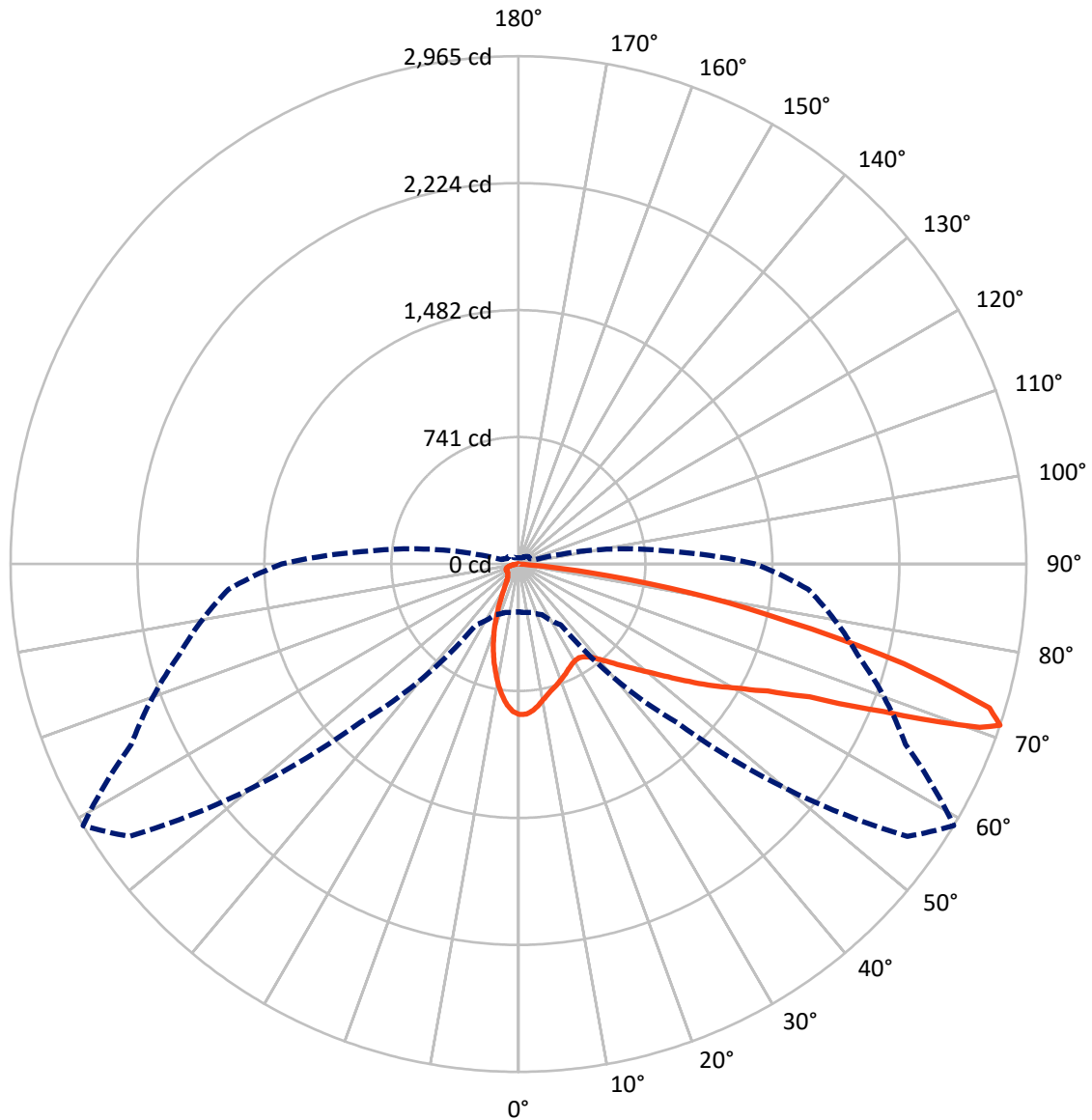


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	519.9	0.0	519.9
	% Fixture	17.0	0.0	17.0
<b>Street Side</b>	Lumens	2543.1	0.0	2543.1
	% Fixture	83.0	0.0	83.0
<b>Total</b>	Lumens	3063.0	0.0	3063.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	2.5
10°-20°	170.6	5.6
20°-30°	216.8	7.1
30°-40°	277.1	9.0
40°-50°	384.6	12.6
50°-60°	569.4	18.6
60°-70°	769.7	25.1
70°-80°	545.8	17.8
80°-90°	53.0	1.7
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°	3063.0	100.0
0°-180°	3063.0	100.0



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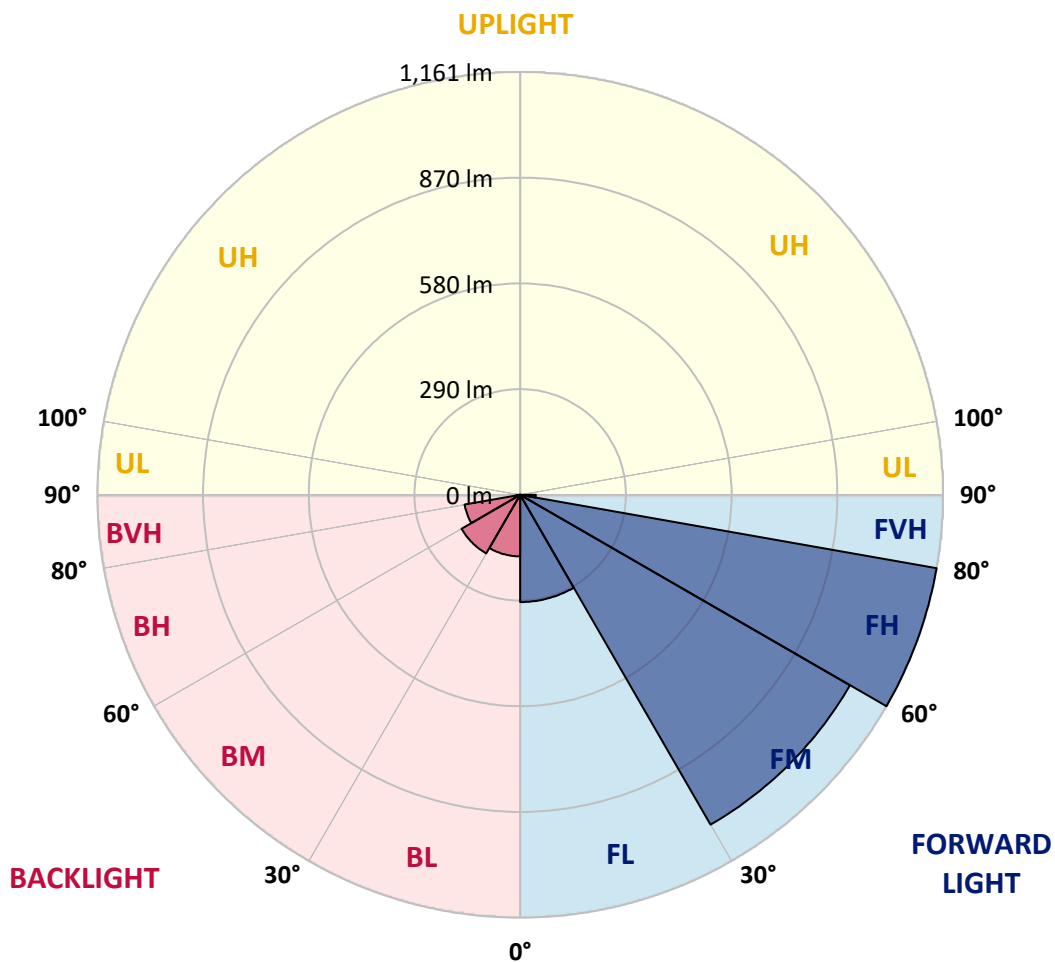
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.4	9.6			
FM	(30°-60°)	1045.3	34.1			
FH	(60°-80°)	1160.6	37.9			G1/1800
FVH	(80°-90°)	42.9	1.4			G1/100
BL	(0°-30°)	168.9	5.5	B1/500		
BM	(30°-60°)	185.9	6.1	B0/220		
BH	(60°-80°)	154.9	5.1	B1/500		G1/500
BVH	(80°-90°)	10.1	0.3			G1/100
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°	59°	65°	75°	85°
0°	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8
2.5°	871.2	874.3	875.7	877.9	877.9	878.8	877.9	877.4	879.2	877.4	872.6
5°	832.6	833.9	837.9	842.4	846.8	856.1	858.8	860.6	864.6	865.5	860.6
7.5°	780.2	785.1	790.4	796.2	805.5	818.4	829.5	833.9	841.5	845.9	838.8
10°	735.9	738.5	741.2	751.4	766.0	783.8	795.3	803.8	815.7	821.5	814.9
12.5°	691.5	693.7	699.0	712.8	727.9	749.2	770.0	776.7	790.9	802.4	797.1
15°	657.3	657.3	661.3	676.4	692.4	720.8	745.2	755.4	773.1	789.6	782.9
17.5°	627.1	628.5	631.1	640.9	663.1	692.8	723.9	736.7	758.9	780.2	771.4
20°	610.3	609.4	611.1	616.0	633.8	665.3	702.6	717.7	745.2	774.5	760.3
22.5°	604.5	603.6	602.3	601.8	613.4	640.0	679.9	698.6	732.8	771.4	750.1
25°	608.9	608.9	604.9	597.4	602.7	620.9	659.5	679.5	719.0	769.1	740.7
27.5°	620.9	620.9	615.1	605.4	603.2	611.1	641.8	663.1	707.5	770.5	733.2
30°	637.3	636.9	631.1	622.7	616.0	613.4	633.3	652.9	699.5	776.2	729.6
32.5°	656.0	655.1	652.4	646.6	638.7	627.1	634.2	651.5	697.7	786.5	730.1
35°	678.2	676.8	678.2	675.1	667.5	655.1	650.6	664.4	706.6	805.5	737.6
37.5°	697.7	696.8	703.5	705.2	703.5	687.0	681.3	690.1	727.4	835.7	753.2
40°	714.1	715.0	727.0	739.9	742.5	728.3	724.3	731.9	761.2	872.6	781.1
42.5°	732.3	735.0	752.7	775.8	784.7	775.4	777.6	782.9	803.8	922.7	821.5
45°	750.1	755.8	780.2	810.0	832.6	832.6	840.2	845.5	858.8	985.7	880.5
47.5°	781.1	785.1	811.8	847.7	882.3	893.4	914.3	912.5	922.7	1055.0	949.8
50°	821.5	828.2	855.2	892.5	936.5	968.0	991.9	995.5	999.5	1126.0	1031.9
52.5°	877.4	885.4	907.6	942.2	994.2	1045.6	1096.2	1094.0	1088.7	1203.2	1126.0
55°	933.8	942.2	963.1	991.1	1052.3	1131.3	1213.9	1210.7	1186.3	1282.2	1213.0
57.5°	991.1	998.2	1019.9	1044.3	1116.7	1232.5	1338.1	1340.3	1290.2	1370.1	1299.1
60°	1015.0	1025.7	1079.4	1126.4	1217.0	1344.8	1465.1	1470.8	1398.0	1458.8	1394.0
62.5°	906.7	919.6	1008.4	1135.3	1354.5	1561.4	1630.2	1633.7	1528.1	1556.9	1497.9
65°	671.1	670.6	762.5	952.4	1327.0	1852.1	1924.4	1868.5	1689.6	1687.0	1635.0
67.5°	384.3	395.9	425.2	568.1	1011.0	1905.8	2448.1	2302.1	1975.9	1889.4	1817.9
70°	309.8	307.1	316.0	354.2	551.2	1567.1	2789.4	2856.0	2382.4	2054.5	1776.6
71°	279.2	283.2	292.0	326.7	434.9	1307.5	2772.6	2964.7	2493.4	2050.0	1698.1
72.5°	240.1	241.0	261.4	302.2	357.3	922.3	2563.5	2875.1	2609.7	1991.9	1582.7
75°	163.3	165.5	197.5	243.2	326.2	438.1	1834.3	2325.6	2375.3	1861.4	1307.1
77.5°	93.6	95.4	118.5	178.0	277.8	308.9	1126.0	1607.1	1707.8	1361.2	700.8
80°	48.4	50.6	65.7	112.3	212.1	249.9	645.8	1010.6	971.5	470.5	162.4
82.5°	12.9	14.6	19.1	40.4	102.5	162.9	286.3	418.1	298.7	97.6	59.0
85°	0.0	0.0	0.0	0.4	0.9	22.6	60.4	75.0	41.7	19.1	16.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	0.9	0.9	0.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8
2.5°	871.7	871.7	869.0	865.0	860.6	850.4	852.1	844.1	845.0	844.1	844.1
5°	856.6	853.9	847.3	834.8	821.1	802.9	800.2	785.6	777.1	774.5	777.6
7.5°	835.7	828.2	811.3	789.6	763.4	739.9	718.1	698.6	683.9	677.7	675.1
10°	808.2	798.9	771.4	733.2	697.2	660.4	626.2	604.0	574.7	565.9	563.2
12.5°	785.6	769.6	728.3	675.1	619.1	570.3	524.2	477.6	449.6	429.6	426.5
15°	766.0	743.4	684.4	615.6	545.9	478.4	415.9	353.3	313.8	296.9	284.9
17.5°	748.7	719.4	640.4	551.2	465.1	375.9	299.6	239.7	214.8	201.9	202.4
20°	731.0	693.7	594.7	486.9	385.2	286.3	211.7	183.7	171.3	168.7	167.3
22.5°	714.1	664.4	546.3	423.4	303.6	210.4	170.4	156.7	153.6	153.6	153.6
25°	695.0	634.7	497.5	358.6	229.9	166.0	146.5	141.6	142.5	144.2	144.7
27.5°	679.5	608.9	449.1	283.6	178.4	141.1	130.9	130.0	133.6	137.6	137.6
30°	665.7	585.4	396.8	221.5	142.0	123.8	120.3	121.6	125.2	128.7	130.0
32.5°	656.4	564.1	349.7	172.2	121.2	111.8	111.0	112.7	116.3	118.1	119.4
35°	652.4	548.6	299.1	138.9	107.8	103.0	102.5	103.9	105.6	106.1	105.6
37.5°	656.9	537.9	247.2	117.6	99.4	96.8	96.3	96.3	96.3	96.8	96.3
40°	669.7	533.9	200.6	103.9	94.1	91.9	90.5	89.2	88.3	88.3	87.9
42.5°	696.8	540.1	161.1	95.9	90.1	87.4	84.8	83.0	81.7	81.2	81.2
45°	740.3	557.4	134.0	90.5	86.5	82.6	79.4	77.7	76.3	76.8	76.3
47.5°	800.2	586.3	118.5	87.0	83.0	77.7	74.6	72.8	72.3	73.7	74.1
50°	868.1	627.1	109.2	84.3	80.3	73.7	70.1	68.8	69.2	71.9	72.3
52.5°	948.0	679.9	105.2	82.6	78.1	70.1	67.0	65.7	66.6	69.7	70.1
55°	1034.1	740.3	111.0	83.4	75.9	67.9	64.4	62.6	63.9	66.6	67.0
57.5°	1121.5	814.9	130.5	83.9	73.2	66.1	61.7	59.0	59.9	62.1	62.6
60°	1209.9	889.0	164.2	84.3	72.3	64.4	59.5	55.5	55.9	57.3	57.7
62.5°	1313.7	983.1	208.6	86.1	73.2	63.0	55.5	51.0	51.0	51.9	51.9
65°	1471.3	1123.3	237.9	85.2	75.4	61.7	51.5	47.0	46.6	47.0	47.0
67.5°	1584.4	1142.0	166.0	80.3	76.8	62.1	49.3	43.5	42.6	42.2	42.2
70°	1464.6	960.9	109.6	75.9	74.6	63.0	47.5	41.3	39.5	38.2	37.7
71°	1381.6	865.9	101.6	74.1	72.8	62.1	46.6	39.9	38.2	37.3	36.8
72.5°	1258.7	772.7	93.6	71.5	68.8	60.4	45.3	38.6	36.4	35.1	34.6
75°	994.6	592.5	82.1	65.7	59.5	49.7	41.7	35.9	33.7	32.0	31.5
77.5°	449.6	235.7	63.0	56.8	48.4	39.5	36.4	33.3	30.6	29.3	28.8
80°	125.6	89.7	46.2	44.8	36.4	30.6	29.3	28.4	27.5	25.7	25.7
82.5°	58.1	52.4	32.8	31.5	24.9	21.7	23.1	23.5	23.5	21.7	21.3
85°	16.0	17.3	15.1	16.9	16.0	14.6	16.9	18.2	19.1	17.3	16.0
87.5°	1.3	3.1	4.0	6.7	8.0	8.4	10.7	12.9	13.3	10.7	11.1
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)