

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: P401464

Luminaire Tested: **ENT-SA1D-730-U-T4FT**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1D-730-U-T4FT  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4923 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.1  
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

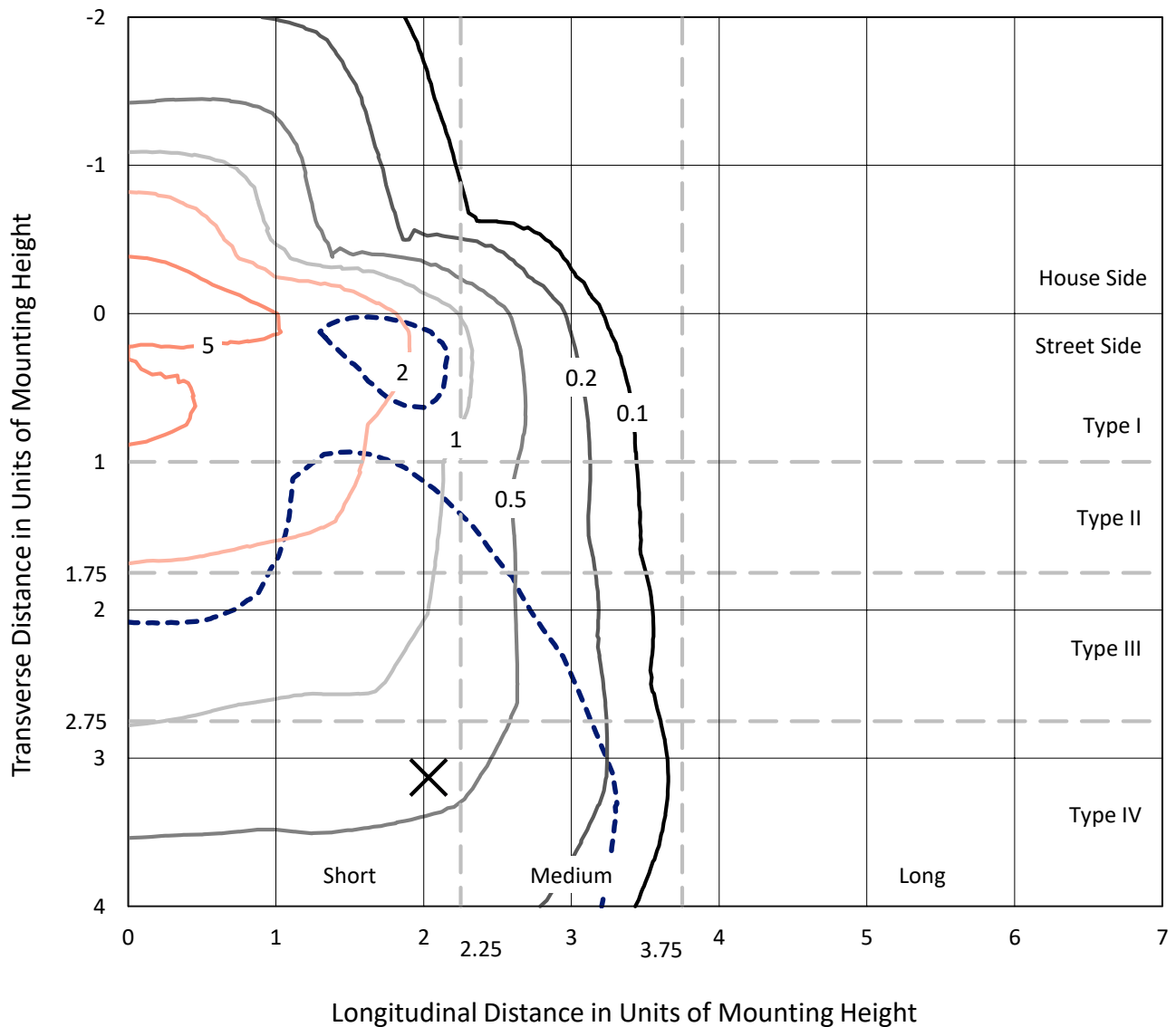


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

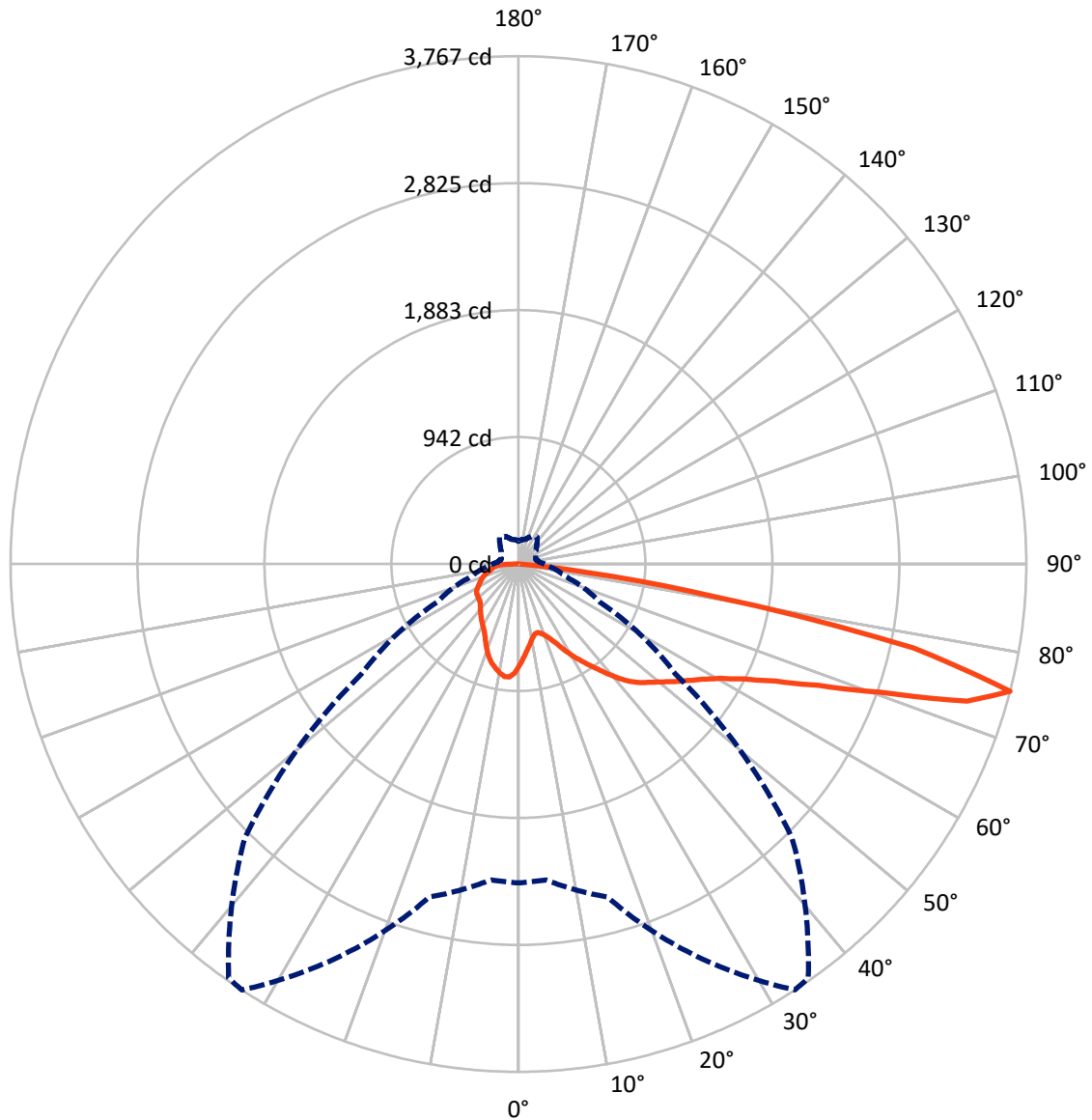


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1195.9	0.0	1195.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3727.1	0.0	3727.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	4923.0	0.0	4923.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	1.4
10°-20°	198.2	4.0
20°-30°	329.6	6.7
30°-40°	491.7	10.0
40°-50°	686.8	14.0
50°-60°	916.8	18.6
60°-70°	1136.8	23.1
70°-80°	982.8	20.0
80°-90°	109.9	2.2
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°	4923.0	100.0
0°-180°	4923.0	100.0



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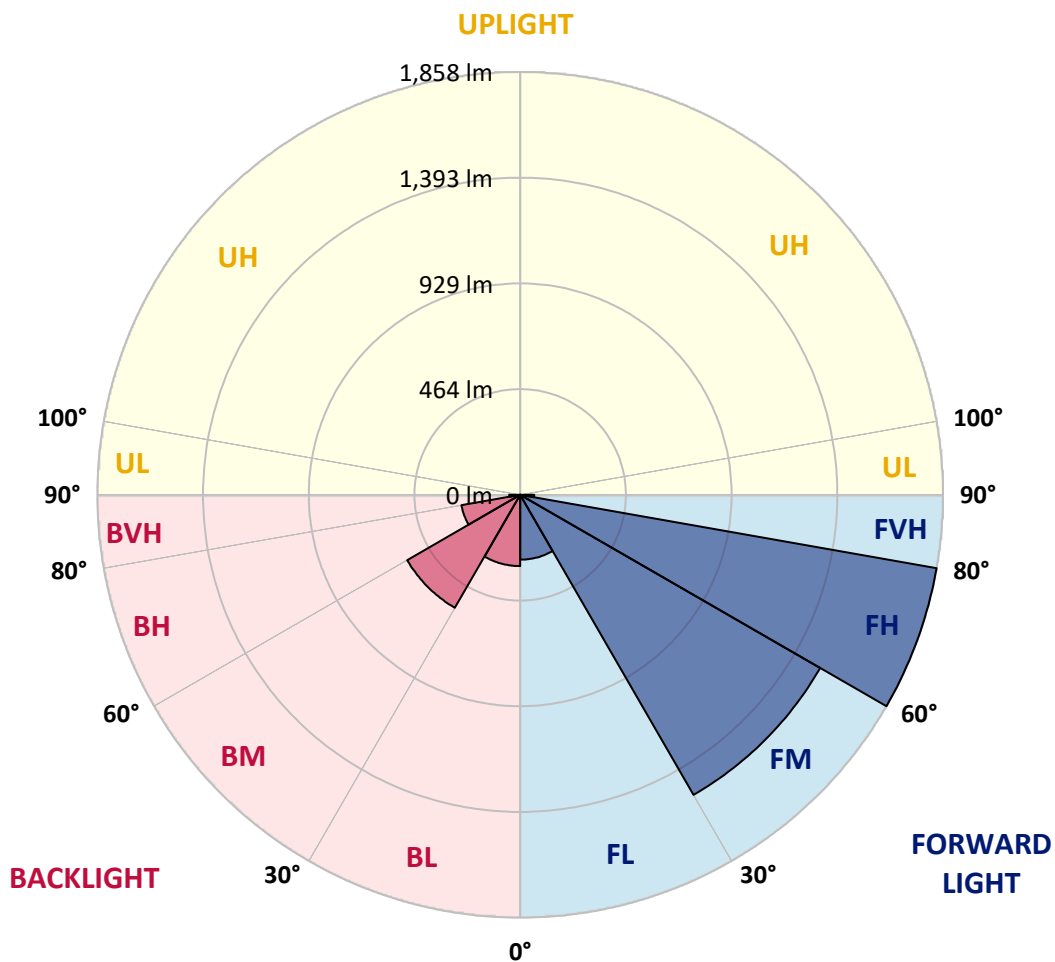
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.0	5.8			
FM	(30°-60°)	1522.2	30.9			
FH	(60°-80°)	1857.7	37.7			G2/5000
FVH	(80°-90°)	62.1	1.3			G1/100
BL	(0°-30°)	313.2	6.4	B1/500		
BM	(30°-60°)	573.1	11.6	B1/1000		
BH	(60°-80°)	261.9	5.3	B1/500		G1/500
BVH	(80°-90°)	47.8	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4
2.5°	684.2	685.6	690.0	695.1	698.1	698.1	706.1	715.6	727.3	737.5	748.5
5°	627.2	629.4	633.0	639.6	647.6	649.1	665.2	682.0	703.2	725.8	747.8
7.5°	570.9	575.3	582.6	591.3	603.8	606.7	629.4	652.0	681.3	715.6	751.4
10°	527.8	530.7	534.3	546.8	562.1	567.2	597.2	625.7	665.9	708.3	755.8
12.5°	516.1	516.1	516.1	521.9	534.3	538.7	570.1	606.7	652.0	703.2	762.4
15°	532.9	532.1	524.1	519.7	527.0	530.7	557.7	593.5	644.7	704.6	774.8
17.5°	570.9	568.7	549.7	535.1	540.2	542.4	559.9	590.6	642.5	710.5	793.1
20°	620.6	615.5	586.2	564.3	563.6	565.0	578.2	599.4	646.2	720.7	812.8
22.5°	686.4	683.4	640.3	606.7	600.8	600.8	606.7	619.9	655.7	732.4	839.9
25°	771.2	763.1	711.2	665.9	652.7	649.1	648.4	648.4	672.5	750.0	873.5
27.5°	858.1	848.6	796.0	734.6	717.1	710.5	698.8	690.0	694.4	769.0	913.7
30°	936.4	923.2	878.6	815.0	788.7	778.5	757.3	739.0	727.3	795.3	967.1
32.5°	979.5	974.4	943.7	885.9	856.0	851.6	816.5	792.4	771.9	829.6	1038.7
35°	1037.2	1030.7	1010.9	963.4	927.6	916.6	890.3	861.8	828.9	875.7	1129.3
37.5°	1090.6	1086.9	1079.6	1046.7	1008.7	997.8	973.6	943.7	899.1	943.7	1230.9
40°	1144.7	1140.3	1137.4	1125.7	1098.6	1091.3	1079.6	1044.5	984.6	1018.2	1331.1
42.5°	1223.6	1214.1	1183.4	1182.7	1184.9	1190.7	1191.5	1152.7	1078.2	1111.1	1418.8
45°	1326.7	1300.4	1231.7	1229.5	1255.1	1270.4	1307.7	1274.8	1175.4	1206.1	1516.7
47.5°	1379.3	1352.3	1281.4	1277.0	1310.6	1333.3	1425.4	1393.2	1276.3	1312.8	1618.3
50°	1404.9	1387.4	1325.2	1339.1	1373.5	1395.4	1537.2	1511.6	1380.8	1428.3	1746.3
52.5°	1440.7	1411.5	1367.6	1396.9	1448.0	1470.7	1637.4	1633.0	1469.2	1554.0	1886.6
55°	1428.3	1412.9	1421.0	1460.5	1524.8	1558.4	1738.2	1738.2	1559.1	1688.5	2025.5
57.5°	1438.5	1428.3	1494.8	1529.9	1611.0	1659.3	1859.6	1827.4	1635.2	1801.1	2119.1
60°	1525.5	1496.3	1548.2	1617.6	1722.1	1768.9	1998.4	1921.0	1697.3	1898.3	2135.9
62.5°	1679.0	1655.6	1660.7	1740.4	1875.6	1929.7	2135.9	2003.6	1739.0	1939.2	2073.0
65°	1933.4	1922.4	1859.6	1907.8	2094.2	2143.2	2307.6	2075.2	1727.3	1908.5	1907.1
67.5°	2275.5	2231.6	2146.8	2190.0	2404.9	2454.6	2514.5	2102.2	1651.2	1725.1	1532.8
70°	2559.1	2522.5	2483.8	2597.1	2844.2	2871.2	2730.1	2076.7	1466.3	1350.1	1027.7
72.5°	2739.6	2713.3	2749.1	3082.5	3477.9	3426.7	2942.8	1897.6	1144.0	826.7	513.9
75°	2364.7	2352.2	2556.9	3233.0	3766.6	3747.6	2869.0	1420.3	663.7	364.0	233.9
77.5°	1189.3	1324.5	1540.1	2293.8	2996.9	3000.6	2090.5	682.7	279.2	203.9	160.8
80°	334.8	339.2	513.9	945.9	1496.3	1594.2	790.9	231.7	159.3	152.0	119.9
82.5°	79.7	73.8	131.6	280.0	502.2	522.6	237.6	83.3	89.2	95.0	73.8
85°	0.7	0.7	0.7	0.7	0.7	1.5	8.8	8.8	21.2	27.0	21.2
87.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4
2.5°	753.6	760.9	772.6	782.9	791.6	798.2	808.4	809.9	812.8	814.3	815.8
5°	760.2	774.1	796.0	815.0	828.2	831.8	840.6	839.9	840.6	840.6	839.9
7.5°	769.0	788.0	818.7	839.9	847.2	845.0	842.8	834.8	828.2	825.3	821.6
10°	779.9	801.9	837.7	853.0	849.4	837.7	823.8	809.2	797.5	791.6	790.2
12.5°	790.9	819.4	853.0	857.4	842.8	821.6	798.2	782.1	766.8	758.7	758.7
15°	809.2	840.6	865.5	856.7	830.4	803.3	771.2	749.2	731.7	720.7	720.0
17.5°	831.1	864.7	878.6	853.0	815.0	777.0	738.3	709.8	687.1	676.1	669.6
20°	858.1	889.6	885.2	841.3	792.4	745.6	697.3	663.0	639.6	627.9	625.7
22.5°	888.8	915.2	887.4	822.3	761.7	701.7	649.1	614.7	599.4	590.6	591.3
25°	926.1	946.6	888.1	799.7	717.8	644.0	597.9	581.8	579.7	576.0	577.5
27.5°	972.9	979.5	885.2	769.0	661.5	583.3	556.3	562.8	568.7	566.5	568.0
30°	1028.5	1019.0	878.6	724.4	592.1	527.8	529.2	543.8	551.9	549.7	550.4
32.5°	1093.5	1058.4	866.2	670.3	526.3	494.1	505.8	520.4	528.5	528.5	529.2
35°	1166.6	1105.9	842.1	600.1	480.2	473.7	483.9	495.6	500.7	497.8	500.0
37.5°	1243.4	1146.9	803.3	521.9	445.9	457.6	463.4	466.4	465.6	461.2	459.0
40°	1315.0	1179.0	733.9	444.4	417.4	440.8	443.7	435.7	426.1	418.1	413.0
42.5°	1369.8	1195.9	637.4	388.1	390.3	421.8	424.0	407.9	389.6	377.2	374.3
45°	1426.1	1201.7	541.6	342.8	361.1	402.8	408.6	386.7	361.8	347.2	345.0
47.5°	1490.4	1216.3	447.3	311.4	336.2	389.6	399.1	372.1	344.3	322.4	318.7
50°	1576.7	1244.1	376.4	287.3	318.7	383.0	396.2	360.4	325.3	301.2	298.2
52.5°	1686.3	1285.0	310.7	268.3	304.8	372.8	391.8	348.7	311.4	282.2	277.8
55°	1780.6	1300.4	268.3	252.2	290.2	360.4	388.1	344.3	296.0	263.1	258.0
57.5°	1823.7	1256.5	238.3	236.1	274.8	345.0	380.8	329.7	279.2	253.6	249.3
60°	1804.0	1147.6	215.6	221.5	257.3	325.3	361.8	315.0	267.5	246.3	241.9
62.5°	1716.3	1021.9	198.8	207.6	237.6	300.4	339.9	301.9	257.3	238.3	232.4
65°	1562.1	883.7	186.4	195.2	220.0	276.3	322.4	286.5	245.6	226.6	221.5
67.5°	1274.8	703.2	173.2	182.7	205.4	256.6	306.3	274.1	232.4	220.0	215.6
70°	843.5	472.9	160.8	170.3	190.8	237.6	289.5	261.0	220.0	212.0	206.1
72.5°	387.4	254.4	147.7	157.2	174.0	216.4	268.3	241.2	203.2	198.1	189.3
75°	191.5	156.4	131.6	140.3	153.5	190.8	243.4	224.4	187.9	179.1	168.9
77.5°	139.6	117.0	113.3	122.1	133.0	168.9	217.1	206.9	172.5	160.1	154.2
80°	103.8	90.6	95.0	103.8	114.0	152.8	203.2	193.7	159.3	146.9	142.5
82.5°	63.6	60.7	73.1	83.3	95.8	140.3	193.7	176.9	143.3	131.6	126.5
85°	18.3	21.9	37.3	54.1	68.0	113.3	180.5	155.0	120.6	100.9	97.2
87.5°	0.0	2.2	11.7	24.9	40.2	75.3	138.9	121.3	92.1	74.6	71.6
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)