

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: P401266

Luminaire Tested: **ENT-SA1C-727-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401266
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-SA1C-727-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612 lumens
Efficiency: N/A
Efficacy: 108.5 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 - 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

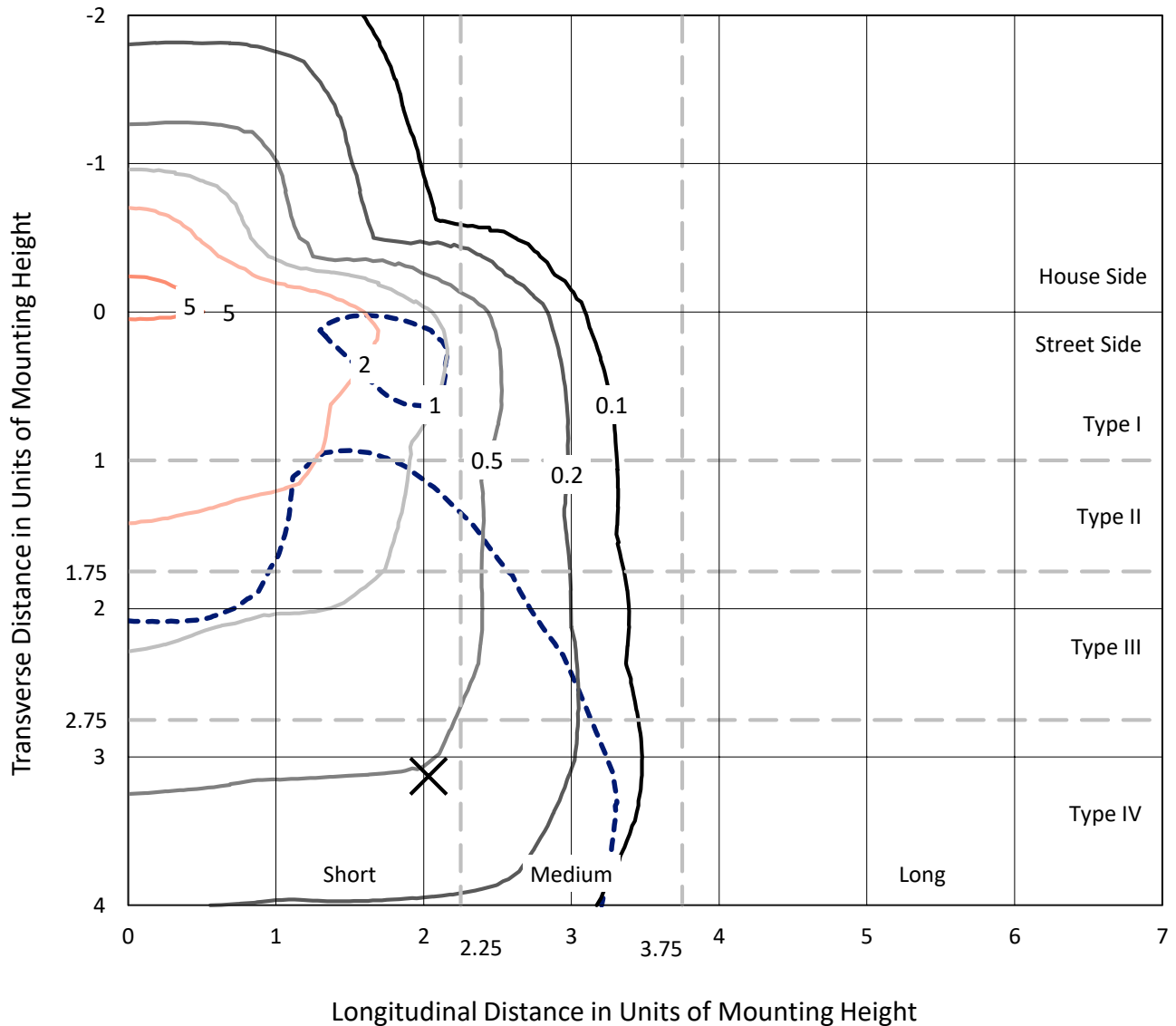


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Iso-Footcandle Lines of Horizontal Illumination

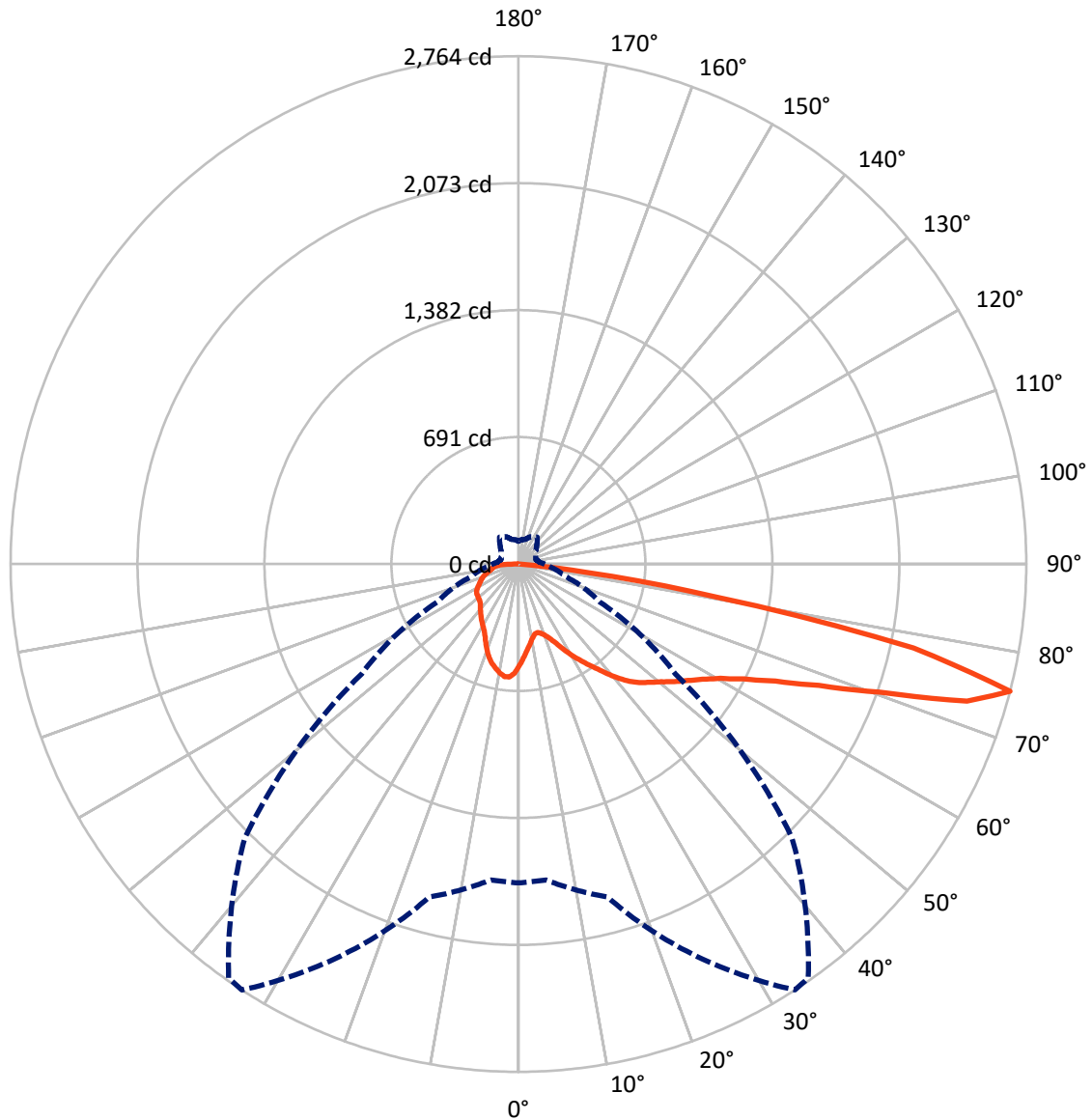
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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
House Side	Lumens	877.4	0.0	877.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2734.5	0.0	2734.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	3612.0	0.0	3612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.4
10°-20°	145.4	4.0
20°-30°	241.8	6.7
30°-40°	360.7	10.0
40°-50°	503.9	14.0
50°-60°	672.7	18.6
60°-70°	834.0	23.1
70°-80°	721.1	20.0
80°-90°	80.6	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°	3612.0	100.0
0°-180°	3612.0	100.0



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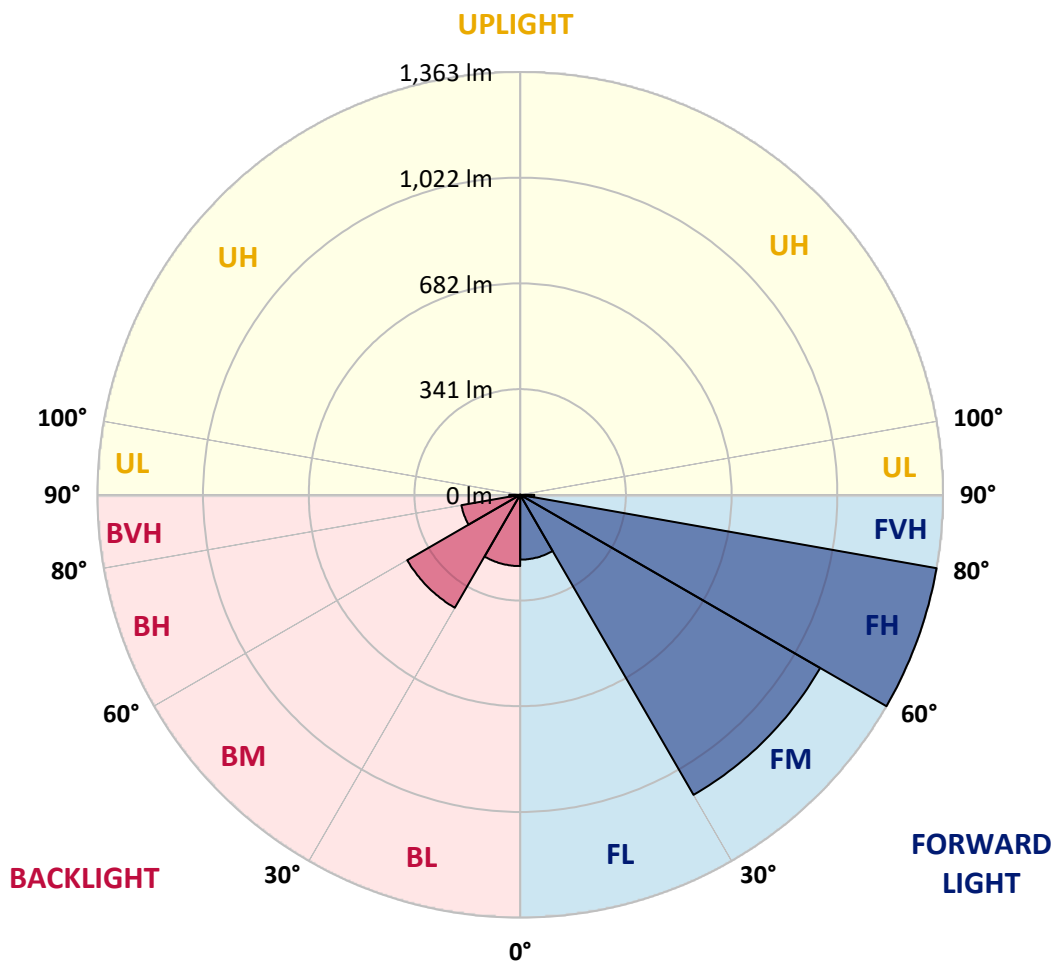
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.1	5.8			
FM	(30°-60°)	1116.9	30.9			
FH	(60°-80°)	1363.0	37.7			G1/1800
FVH	(80°-90°)	45.6	1.3			G1/100
BL	(0°-30°)	229.8	6.4	B1/500		
BM	(30°-60°)	420.5	11.6	B1/1000		
BH	(60°-80°)	192.1	5.3	B1/500		G1/500
BVH	(80°-90°)	35.1	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	502.0	503.1	506.3	510.0	512.2	512.2	518.1	525.0	533.6	541.1	549.2
5°	460.1	461.8	464.4	469.3	475.2	476.2	488.0	500.4	515.9	532.6	548.6
7.5°	418.9	422.1	427.4	433.9	443.0	445.1	461.8	478.4	499.8	525.0	551.3
10°	387.2	389.4	392.0	401.2	412.4	416.2	438.2	459.1	488.6	519.7	554.5
12.5°	378.6	378.6	378.6	382.9	392.0	395.3	418.3	445.1	478.4	515.9	559.4
15°	391.0	390.4	384.5	381.3	386.7	389.4	409.2	435.5	473.0	517.0	568.5
17.5°	418.9	417.2	403.3	392.6	396.3	397.9	410.8	433.3	471.4	521.3	581.9
20°	455.3	451.6	430.1	414.0	413.5	414.6	424.2	439.8	474.1	528.8	596.4
22.5°	503.6	501.4	469.8	445.1	440.8	440.8	445.1	454.8	481.1	537.4	616.2
25°	565.8	559.9	521.8	488.6	478.9	476.2	475.7	475.7	493.4	550.2	640.9
27.5°	629.6	622.6	584.0	539.0	526.1	521.3	512.7	506.3	509.5	564.2	670.4
30°	687.0	677.4	644.6	598.0	578.7	571.2	555.6	542.2	533.6	583.5	709.5
32.5°	718.6	714.9	692.4	650.0	628.0	624.8	599.1	581.4	566.3	608.7	762.1
35°	761.0	756.2	741.7	706.8	680.6	672.5	653.2	632.3	608.2	642.5	828.6
37.5°	800.2	797.5	792.1	768.0	740.1	732.1	714.4	692.4	659.7	692.4	903.1
40°	839.9	836.6	834.5	825.9	806.1	800.7	792.1	766.4	722.4	747.1	976.6
42.5°	897.8	890.8	868.3	867.7	869.4	873.6	874.2	845.8	791.0	815.2	1041.0
45°	973.4	954.1	903.7	902.1	920.8	932.1	959.4	935.3	862.4	884.9	1112.8
47.5°	1012.0	992.2	940.1	936.9	961.6	978.2	1045.8	1022.2	936.4	963.2	1187.4
50°	1030.8	1017.9	972.3	982.5	1007.7	1023.8	1127.8	1109.1	1013.1	1047.9	1281.2
52.5°	1057.1	1035.6	1003.4	1024.9	1062.4	1079.0	1201.3	1198.1	1078.0	1140.2	1384.2
55°	1047.9	1036.7	1042.6	1071.5	1118.7	1143.4	1275.3	1275.3	1143.9	1238.9	1486.1
57.5°	1055.4	1047.9	1096.7	1122.5	1182.0	1217.4	1364.4	1340.8	1199.7	1321.5	1554.7
60°	1119.3	1097.8	1135.9	1186.8	1263.5	1297.9	1466.3	1409.4	1245.3	1392.8	1567.1
62.5°	1231.9	1214.7	1218.5	1276.9	1376.2	1415.8	1567.1	1470.0	1275.9	1422.8	1521.0
65°	1418.5	1410.5	1364.4	1399.8	1536.5	1572.4	1693.1	1522.6	1267.3	1400.3	1399.2
67.5°	1669.5	1637.3	1575.1	1606.8	1764.4	1800.9	1844.9	1542.4	1211.5	1265.7	1124.6
70°	1877.6	1850.8	1822.4	1905.5	2086.8	2106.6	2003.1	1523.6	1075.8	990.6	754.0
72.5°	2010.1	1990.8	2017.0	2261.6	2551.7	2514.2	2159.2	1392.2	839.3	606.6	377.0
75°	1734.9	1725.8	1876.0	2372.1	2763.6	2749.6	2105.0	1042.0	487.0	267.1	171.6
77.5°	872.6	971.8	1130.0	1682.9	2198.8	2201.5	1533.8	500.9	204.9	149.6	118.0
80°	245.6	248.8	377.0	694.0	1097.8	1169.7	580.3	170.0	116.9	111.6	88.0
82.5°	58.5	54.2	96.5	205.4	368.4	383.5	174.3	61.1	65.4	69.7	54.2
85°	0.5	0.5	0.5	0.5	0.5	1.1	6.4	6.4	15.6	19.8	15.6
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	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°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	552.9	558.3	566.9	574.4	580.8	585.6	593.2	594.2	596.4	597.4	598.5
5°	557.8	567.9	584.0	598.0	607.6	610.3	616.8	616.2	616.8	616.8	616.2
7.5°	564.2	578.1	600.7	616.2	621.6	620.0	618.4	612.5	607.6	605.5	602.8
10°	572.2	588.3	614.6	625.9	623.2	614.6	604.4	593.7	585.1	580.8	579.7
12.5°	580.3	601.2	625.9	629.1	618.4	602.8	585.6	573.8	562.6	556.7	556.7
15°	593.7	616.8	635.0	628.5	609.2	589.4	565.8	549.7	536.8	528.8	528.3
17.5°	609.8	634.4	644.6	625.9	598.0	570.1	541.7	520.8	504.1	496.1	491.3
20°	629.6	652.7	649.5	617.3	581.4	547.0	511.6	486.4	469.3	460.7	459.1
22.5°	652.1	671.5	651.1	603.3	558.8	514.9	476.2	451.0	439.8	433.3	433.9
25°	679.5	694.5	651.6	586.7	526.7	472.5	438.7	426.9	425.3	422.6	423.7
27.5°	713.8	718.6	649.5	564.2	485.4	428.0	408.1	413.0	417.2	415.6	416.7
30°	754.6	747.6	644.6	531.5	434.4	387.2	388.3	399.0	404.9	403.3	403.8
32.5°	802.3	776.6	635.5	491.8	386.1	362.5	371.1	381.8	387.7	387.7	388.3
35°	855.9	811.4	617.8	440.3	352.4	347.5	355.0	363.6	367.4	365.2	366.8
37.5°	912.3	841.5	589.4	382.9	327.1	335.7	340.0	342.2	341.6	338.4	336.8
40°	964.8	865.1	538.5	326.1	306.2	323.4	325.5	319.6	312.7	306.8	303.0
42.5°	1005.0	877.4	467.7	284.8	286.4	309.4	311.1	299.3	285.9	276.7	274.6
45°	1046.3	881.7	397.4	251.5	264.9	295.5	299.8	283.7	265.5	254.7	253.1
47.5°	1093.5	892.4	328.2	228.5	246.7	285.9	292.8	273.0	252.6	236.5	233.8
50°	1156.8	912.8	276.2	210.8	233.8	281.0	290.7	264.4	238.7	221.0	218.8
52.5°	1237.3	942.8	227.9	196.8	223.6	273.5	287.5	255.8	228.5	207.0	203.8
55°	1306.4	954.1	196.8	185.0	212.9	264.4	284.8	252.6	217.2	193.1	189.3
57.5°	1338.1	921.9	174.8	173.2	201.7	253.1	279.4	241.9	204.9	186.1	182.9
60°	1323.6	842.0	158.2	162.5	188.8	238.7	265.5	231.1	196.3	180.7	177.5
62.5°	1259.2	749.8	145.9	152.3	174.3	220.4	249.4	221.5	188.8	174.8	170.5
65°	1146.1	648.4	136.8	143.2	161.4	202.7	236.5	210.2	180.2	166.3	162.5
67.5°	935.3	515.9	127.1	134.1	150.7	188.2	224.7	201.1	170.5	161.4	158.2
70°	618.9	347.0	118.0	125.0	140.0	174.3	212.4	191.5	161.4	155.5	151.2
72.5°	284.2	186.6	108.3	115.3	127.6	158.7	196.8	177.0	149.1	145.3	138.9
75°	140.5	114.8	96.5	103.0	112.6	140.0	178.6	164.6	137.8	131.4	123.9
77.5°	102.4	85.8	83.1	89.6	97.6	123.9	159.3	151.8	126.6	117.5	113.2
80°	76.2	66.5	69.7	76.2	83.7	112.1	149.1	142.1	116.9	107.8	104.6
82.5°	46.7	44.5	53.6	61.1	70.3	103.0	142.1	129.8	105.1	96.5	92.8
85°	13.4	16.1	27.4	39.7	49.9	83.1	132.5	113.7	88.5	74.0	71.3
87.5°	0.0	1.6	8.6	18.2	29.5	55.2	101.9	89.0	67.6	54.7	52.6
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)