

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: P401302

Luminaire Tested: **ENT-SA1C-735-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401302
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-735-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 4057 lumens
Efficiency: N/A
Efficacy: 121.8 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

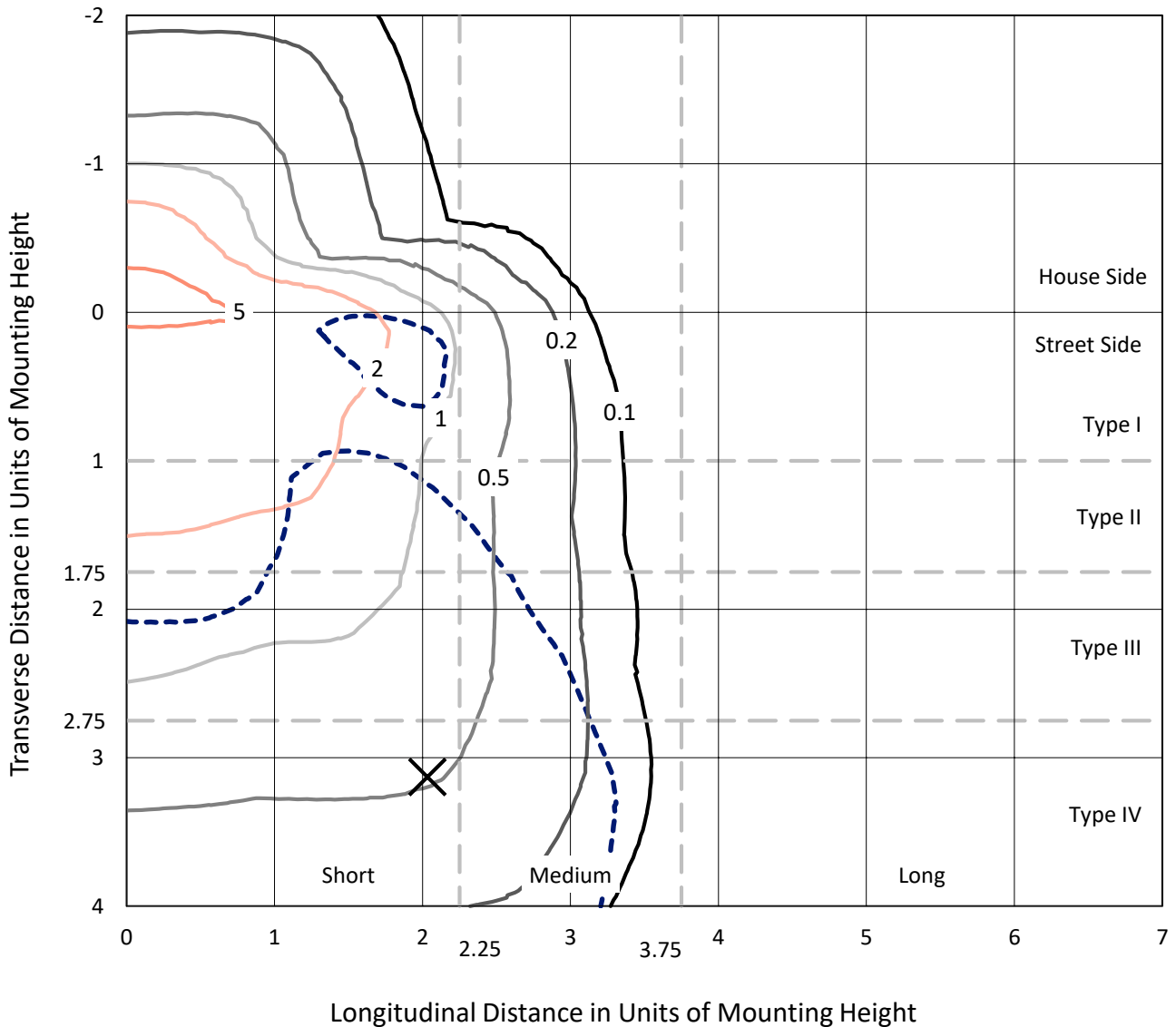
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

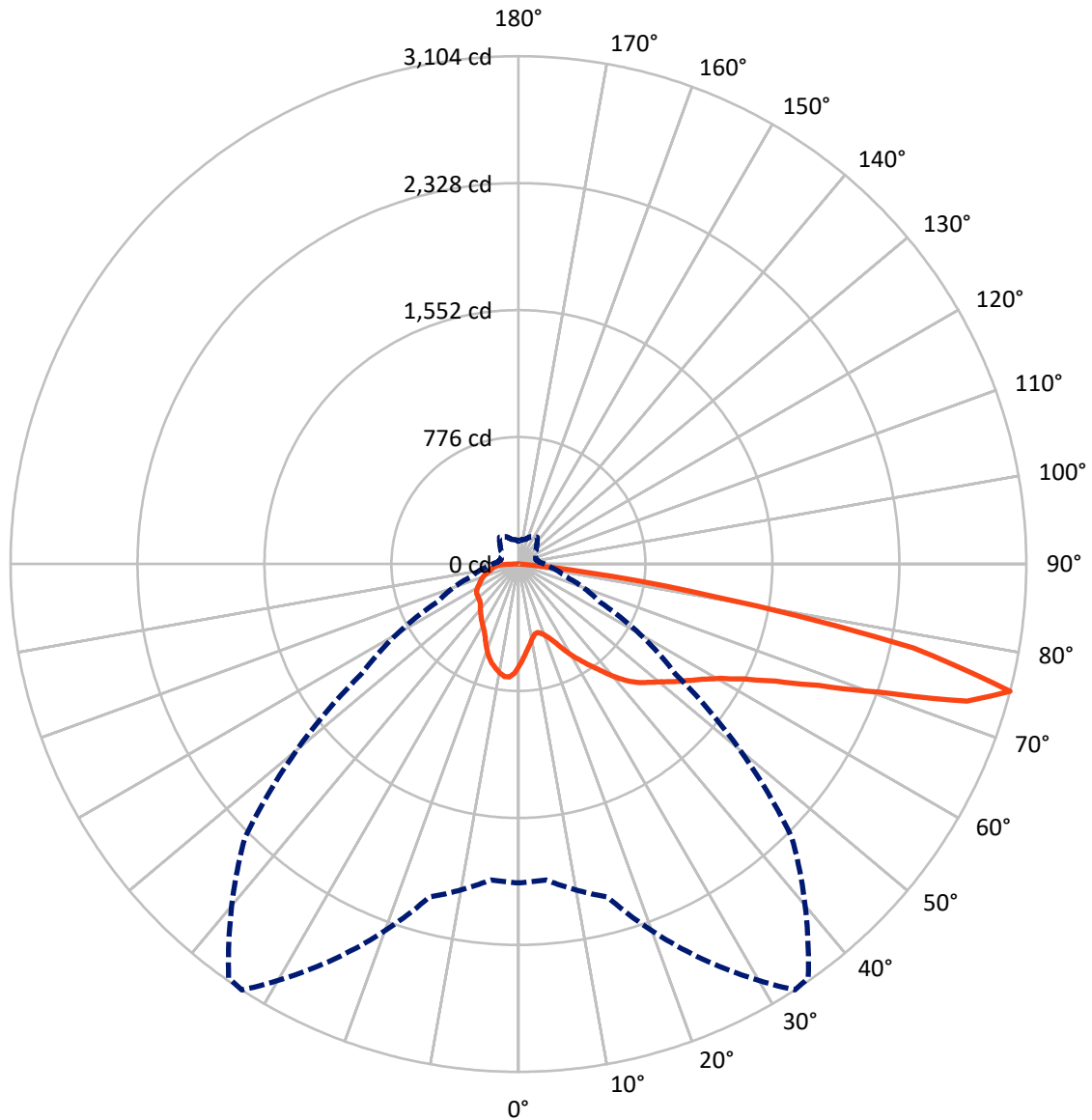
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 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	985.5	0.0	985.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	3071.5	0.0	3071.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	4057.0	0.0	4057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.4
10°-20°	163.3	4.0
20°-30°	271.6	6.7
30°-40°	405.2	10.0
40°-50°	566.0	14.0
50°-60°	755.5	18.6
60°-70°	936.8	23.1
70°-80°	810.0	20.0
80°-90°	90.5	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°	4057.0	100.0
0°-180°	4057.0	100.0

Coefficient of Utilization



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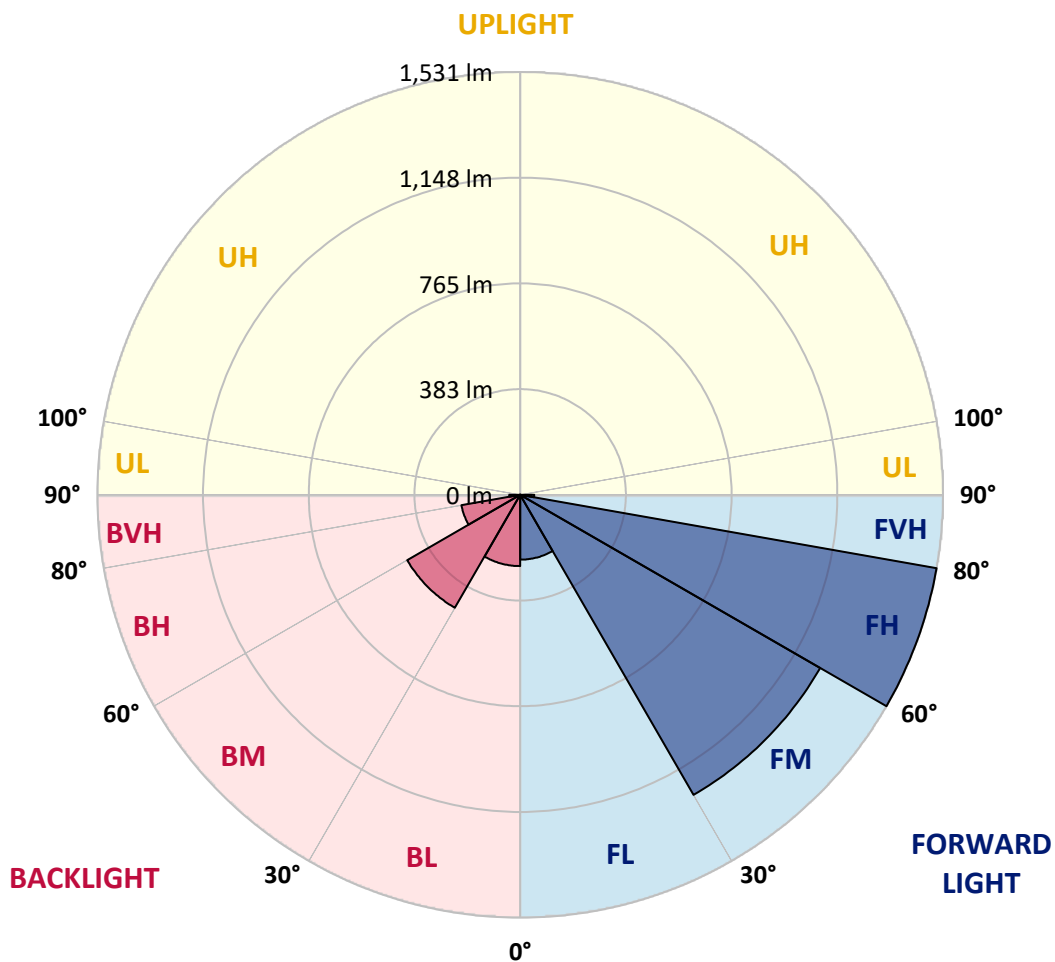
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.9	5.8			
FM	(30°-60°)	1254.4	30.9			
FH	(60°-80°)	1530.9	37.7			G1/1800
FVH	(80°-90°)	51.2	1.3			G1/100
BL	(0°-30°)	258.1	6.4	B1/500		
BM	(30°-60°)	472.3	11.6	B1/1000		
BH	(60°-80°)	215.8	5.3	B1/500		G1/500
BVH	(80°-90°)	39.4	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°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	563.8	565.0	568.6	572.9	575.3	575.3	581.9	589.7	599.4	607.8	616.8
5°	516.8	518.6	521.7	527.1	533.7	534.9	548.2	562.0	579.5	598.2	616.2
7.5°	470.5	474.1	480.1	487.3	497.6	500.0	518.6	537.3	561.4	589.7	619.2
10°	434.9	437.3	440.3	450.6	463.2	467.4	492.1	515.6	548.8	583.7	622.9
12.5°	425.3	425.3	425.3	430.1	440.3	444.0	469.9	500.0	537.3	579.5	628.3
15°	439.1	438.5	431.9	428.3	434.3	437.3	459.6	489.1	531.3	580.7	638.5
17.5°	470.5	468.6	453.0	440.9	445.2	447.0	461.4	486.7	529.5	585.5	653.6
20°	511.4	507.2	483.1	465.0	464.4	465.6	476.5	493.9	532.5	593.9	669.8
22.5°	565.6	563.2	527.7	500.0	495.2	495.2	500.0	510.8	540.3	603.6	692.1
25°	635.5	628.9	586.1	548.8	537.9	534.9	534.3	534.3	554.2	618.0	719.8
27.5°	707.2	699.4	656.0	605.4	590.9	585.5	575.9	568.6	572.3	633.7	753.0
30°	771.6	760.8	724.1	671.7	650.0	641.5	624.1	609.0	599.4	655.4	796.9
32.5°	807.2	803.0	777.7	730.1	705.4	701.8	672.9	653.0	636.1	683.7	856.0
35°	854.8	849.4	833.1	793.9	764.4	755.4	733.7	710.2	683.1	721.6	930.7
37.5°	898.7	895.7	889.7	862.6	831.3	822.2	802.4	777.7	740.9	777.7	1014.4
40°	943.3	939.7	937.3	927.7	905.4	899.4	889.7	860.8	811.4	839.1	1096.9
42.5°	1008.4	1000.5	975.2	974.6	976.5	981.3	981.9	949.9	888.5	915.6	1169.2
45°	1093.3	1071.6	1015.0	1013.2	1034.3	1046.9	1077.7	1050.5	968.6	993.9	1249.9
47.5°	1136.7	1114.4	1056.0	1052.4	1080.1	1098.7	1174.6	1148.1	1051.8	1081.9	1333.7
50°	1157.8	1143.3	1092.1	1103.6	1131.9	1149.9	1266.8	1245.7	1137.9	1177.0	1439.1
52.5°	1187.3	1163.2	1127.0	1151.1	1193.3	1212.0	1349.3	1345.7	1210.8	1280.7	1554.7
55°	1177.0	1164.4	1171.0	1203.6	1256.6	1284.3	1432.5	1432.5	1284.9	1391.5	1669.2
57.5°	1185.5	1177.0	1231.9	1260.8	1327.6	1367.4	1532.4	1505.9	1347.5	1484.3	1746.3
60°	1257.2	1233.1	1275.8	1333.1	1419.2	1457.8	1646.9	1583.0	1398.7	1564.4	1760.1
62.5°	1383.7	1364.4	1368.6	1434.3	1545.7	1590.3	1760.1	1651.1	1433.1	1598.1	1708.3
65°	1593.3	1584.3	1532.4	1572.2	1725.8	1766.2	1901.7	1710.2	1423.4	1572.8	1571.6
67.5°	1875.2	1839.1	1769.2	1804.7	1981.8	2022.8	2072.2	1732.4	1360.8	1421.6	1263.2
70°	2108.9	2078.8	2046.9	2140.2	2343.9	2366.1	2249.9	1711.4	1208.4	1112.6	846.9
72.5°	2257.7	2236.0	2265.5	2540.2	2866.1	2823.9	2425.2	1563.8	942.7	681.3	423.5
75°	1948.7	1938.5	2107.1	2664.3	3104.1	3088.4	2364.3	1170.4	547.0	300.0	192.8
77.5°	980.1	1091.5	1269.2	1890.3	2469.7	2472.8	1722.8	562.6	230.1	168.1	132.5
80°	275.9	279.5	423.5	779.5	1233.1	1313.8	651.8	191.0	131.3	125.3	98.8
82.5°	65.7	60.8	108.4	230.7	413.8	430.7	195.8	68.7	73.5	78.3	60.8
85°	0.6	0.6	0.6	0.6	0.6	1.2	7.2	7.2	17.5	22.3	17.5
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	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°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	621.1	627.1	636.7	645.1	652.4	657.8	666.2	667.4	669.8	671.0	672.3
5°	626.5	637.9	656.0	671.7	682.5	685.5	692.7	692.1	692.7	692.7	692.1
7.5°	633.7	649.4	674.7	692.1	698.2	696.3	694.5	687.9	682.5	680.1	677.1
10°	642.7	660.8	690.3	703.0	700.0	690.3	678.9	666.8	657.2	652.4	651.2
12.5°	651.8	675.3	703.0	706.6	694.5	677.1	657.8	644.5	631.9	625.3	625.3
15°	666.8	692.7	713.2	706.0	684.3	662.0	635.5	617.4	603.0	593.9	593.3
17.5°	684.9	712.6	724.1	703.0	671.7	640.3	608.4	584.9	566.2	557.2	551.8
20°	707.2	733.1	729.5	693.3	653.0	614.4	574.7	546.4	527.1	517.4	515.6
22.5°	732.5	754.2	731.3	677.7	627.7	578.3	534.9	506.6	493.9	486.7	487.3
25°	763.2	780.1	731.9	659.0	591.5	530.7	492.7	479.5	477.7	474.7	475.9
27.5°	801.8	807.2	729.5	633.7	545.2	480.7	458.4	463.8	468.6	466.8	468.0
30°	847.5	839.7	724.1	597.0	487.9	434.9	436.1	448.2	454.8	453.0	453.6
32.5°	901.2	872.2	713.8	552.4	433.7	407.2	416.8	428.9	435.5	435.5	436.1
35°	961.4	911.4	693.9	494.6	395.8	390.3	398.8	408.4	412.6	410.2	412.0
37.5°	1024.6	945.1	662.0	430.1	367.5	377.1	381.9	384.3	383.7	380.1	378.3
40°	1083.7	971.6	604.8	366.2	344.0	363.2	365.6	359.0	351.2	344.6	340.3
42.5°	1128.9	985.5	525.3	319.9	321.7	347.6	349.4	336.1	321.1	310.8	308.4
45°	1175.2	990.3	446.4	282.5	297.6	331.9	336.7	318.7	298.2	286.1	284.3
47.5°	1228.2	1002.4	368.7	256.6	277.1	321.1	328.9	306.6	283.7	265.6	262.6
50°	1299.3	1025.2	310.2	236.7	262.6	315.6	326.5	297.0	268.1	248.2	245.8
52.5°	1389.7	1059.0	256.0	221.1	251.2	307.2	322.9	287.3	256.6	232.5	228.9
55°	1467.4	1071.6	221.1	207.8	239.1	297.0	319.9	283.7	244.0	216.9	212.6
57.5°	1502.9	1035.5	196.4	194.6	226.5	284.3	313.8	271.7	230.1	209.0	205.4
60°	1486.7	945.7	177.7	182.5	212.0	268.1	298.2	259.6	220.5	203.0	199.4
62.5°	1414.4	842.1	163.8	171.1	195.8	247.6	280.1	248.8	212.0	196.4	191.6
65°	1287.3	728.3	153.6	160.8	181.3	227.7	265.6	236.1	202.4	186.7	182.5
67.5°	1050.5	579.5	142.8	150.6	169.3	211.4	252.4	225.9	191.6	181.3	177.7
70°	695.1	389.7	132.5	140.4	157.2	195.8	238.5	215.0	181.3	174.7	169.9
72.5°	319.3	209.6	121.7	129.5	143.4	178.3	221.1	198.8	167.5	163.2	156.0
75°	157.8	128.9	108.4	115.7	126.5	157.2	200.6	184.9	154.8	147.6	139.1
77.5°	115.1	96.4	93.4	100.6	109.6	139.1	178.9	170.5	142.2	131.9	127.1
80°	85.5	74.7	78.3	85.5	94.0	125.9	167.5	159.6	131.3	121.1	117.5
82.5°	52.4	50.0	60.2	68.7	78.9	115.7	159.6	145.8	118.1	108.4	104.2
85°	15.1	18.1	30.7	44.6	56.0	93.4	148.8	127.7	99.4	83.1	80.1
87.5°	0.0	1.8	9.6	20.5	33.1	62.0	114.5	100.0	75.9	61.4	59.0
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)