

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: P401283

Luminaire Tested: **ENT-SA1C-730-U-T4FT-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-730-U-T4FT-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2910 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

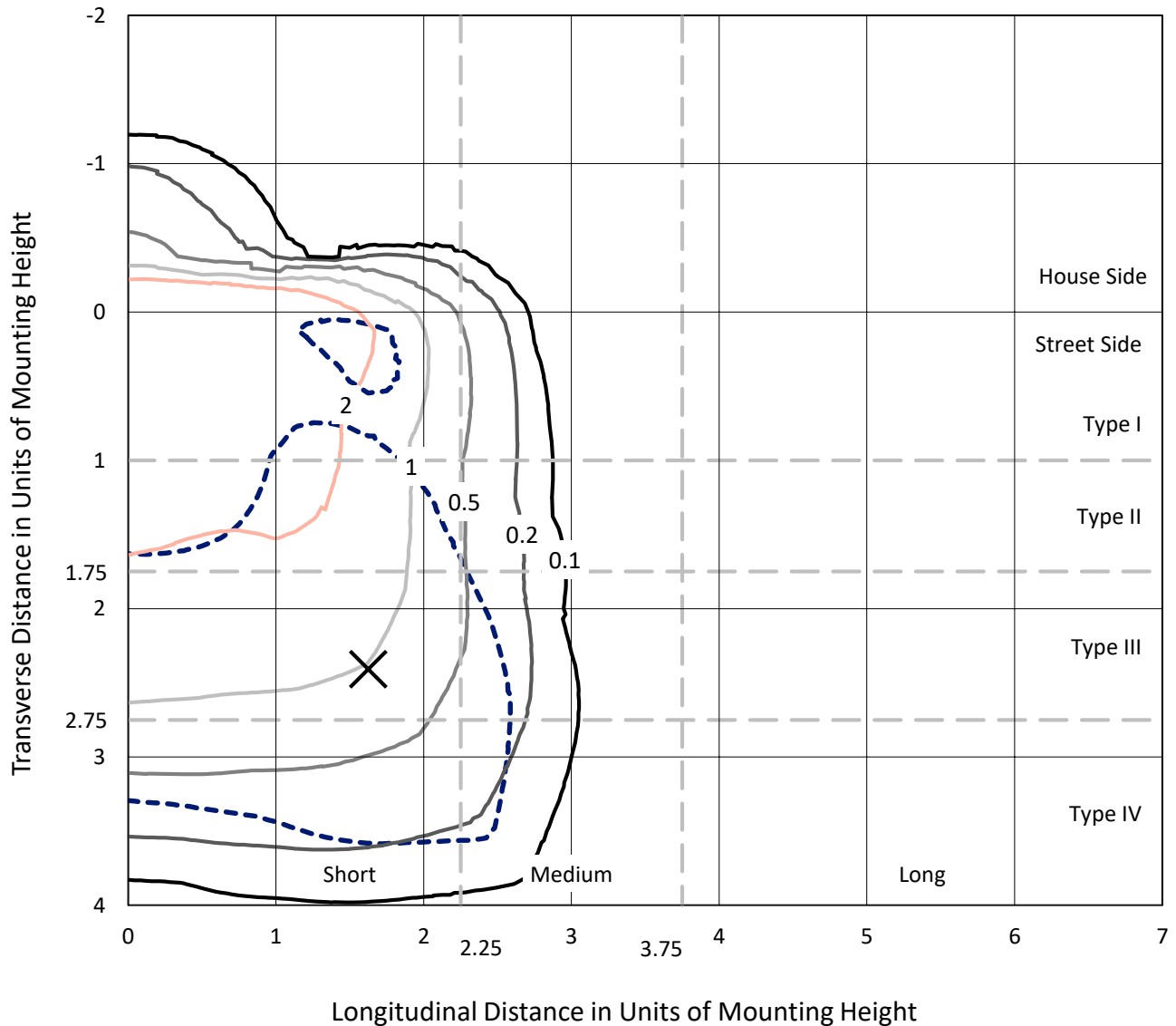
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

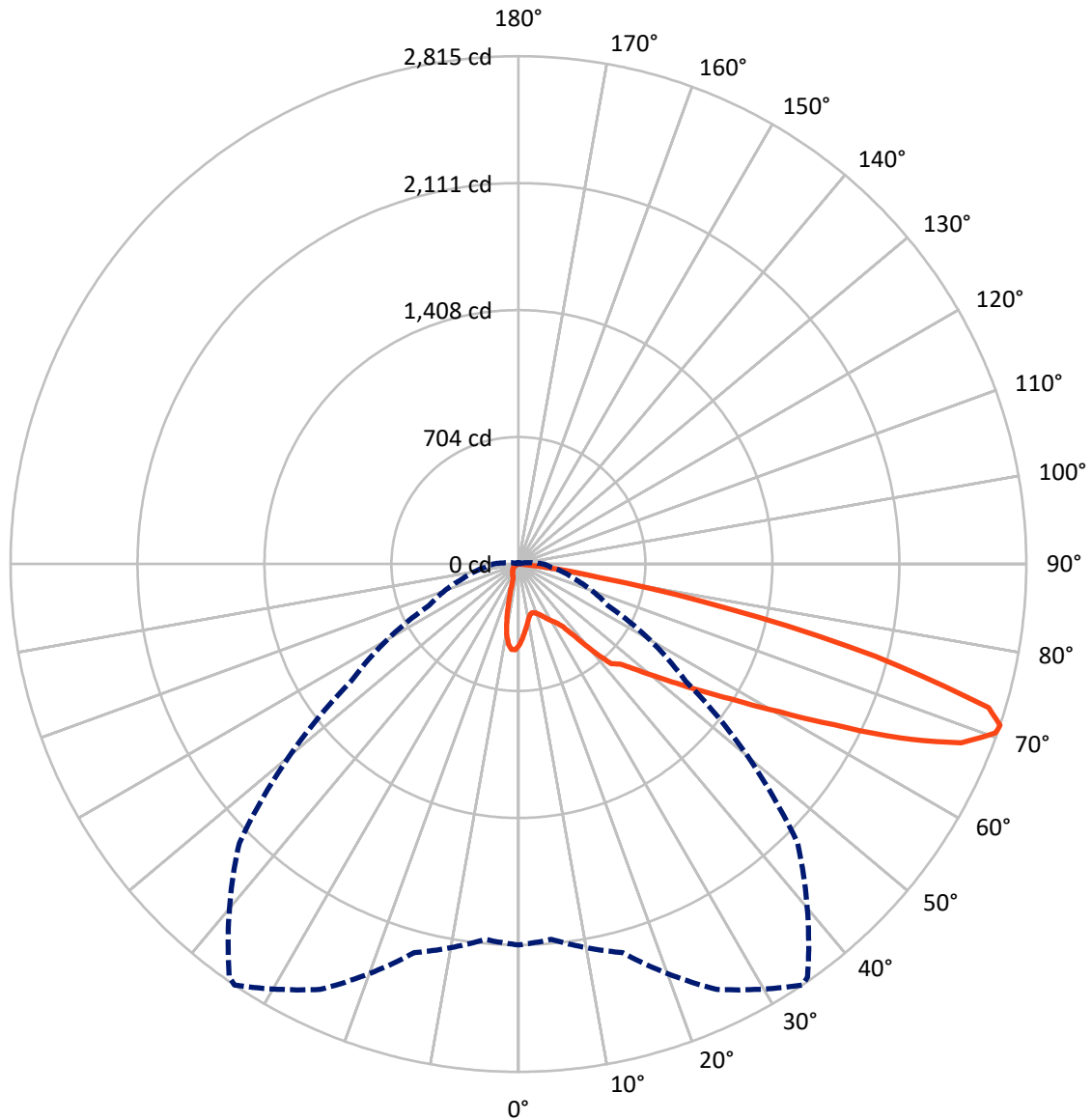
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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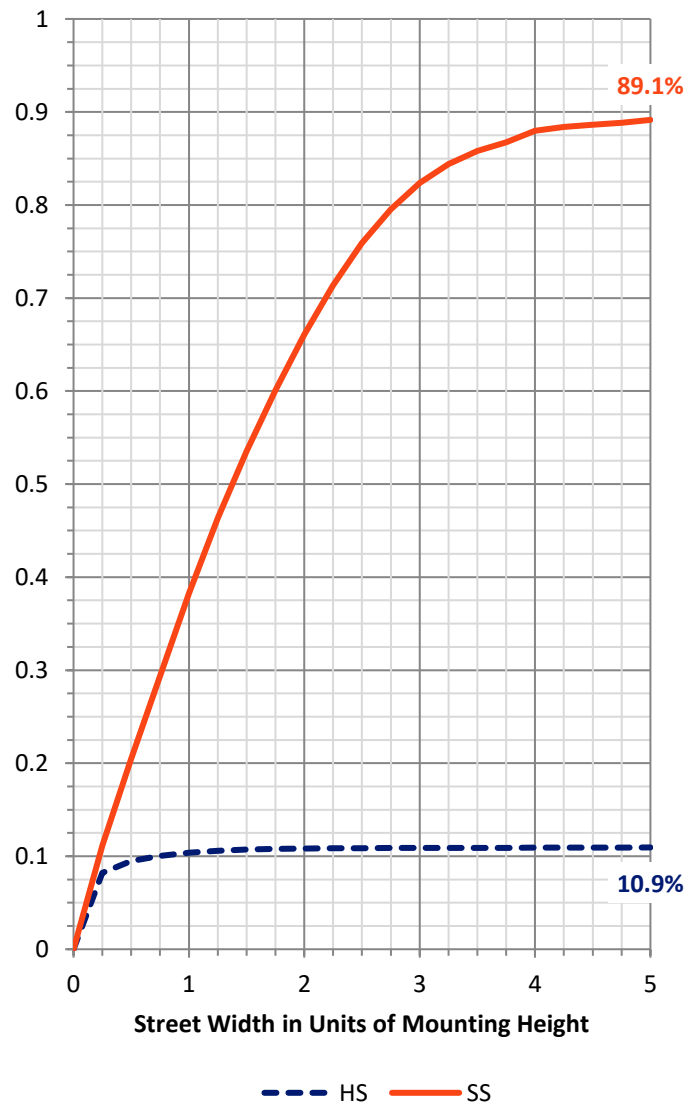
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.8	0.0	321.8
	% Fixture	11.1	0.0	11.1
Street Side	Lumens	2588.2	0.0	2588.2
	% Fixture	88.9	0.0	88.9
Total	Lumens	2910.0	0.0	2910.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.4
10°-20°	91.1	3.1
20°-30°	136.0	4.7
30°-40°	227.1	7.8
40°-50°	410.1	14.1
50°-60°	650.7	22.4
60°-70°	874.4	30.0
70°-80°	463.9	15.9
80°-90°	17.1	0.6
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°	2910.0	100.0
0°-180°	2910.0	100.0



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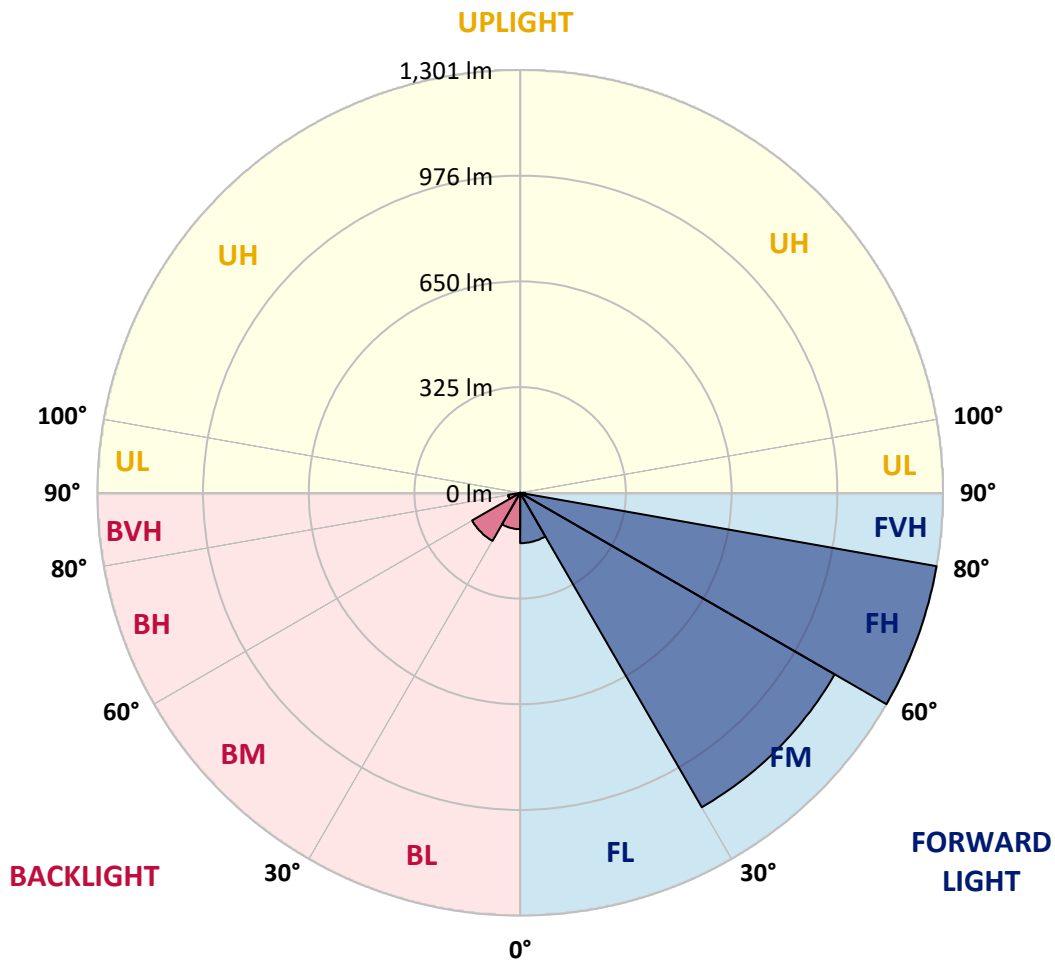
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.9	5.3			
FM	(30°-60°)	1117.1	38.4			
FH	(60°-80°)	1300.7	44.7			G1/1800
FVH	(80°-90°)	15.6	0.5			G1/100
BL	(0°-30°)	111.9	3.8	B1/500		
BM	(30°-60°)	170.7	5.9	B0/220		
BH	(60°-80°)	37.6	1.3	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
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°	34°	35°	45°	55°	65°	75°	85°
0°	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9
2.5°	410.6	405.3	410.0	412.3	414.1	416.4	419.9	426.4	433.4	441.5	446.2
5°	358.0	360.9	362.7	369.1	375.5	376.7	387.8	400.7	417.0	433.4	447.4
7.5°	315.4	315.4	320.6	330.6	341.1	342.3	361.5	378.5	401.8	426.9	449.7
10°	281.5	282.7	286.8	296.7	310.1	313.1	334.7	358.0	387.2	419.9	452.1
12.5°	270.4	269.8	269.2	276.3	287.4	290.3	314.2	342.3	376.7	416.4	457.9
15°	277.4	275.7	271.6	272.8	279.8	282.7	303.7	331.7	370.3	415.8	467.8
17.5°	288.5	286.2	278.6	276.3	283.8	286.8	304.3	328.8	368.0	418.8	479.5
20°	302.0	299.6	287.9	285.0	292.6	294.9	313.1	334.1	369.1	424.6	495.3
22.5°	321.2	318.3	301.4	297.9	305.5	307.8	327.1	346.3	376.1	435.1	516.9
25°	344.6	341.1	319.5	314.8	324.1	326.5	345.8	363.9	387.8	449.1	544.3
27.5°	370.3	366.2	343.4	334.1	344.6	348.1	366.2	386.1	404.7	466.7	580.5
30°	393.7	389.0	366.8	356.3	366.8	368.5	390.1	412.3	432.2	496.4	633.7
32.5°	458.5	446.8	412.3	382.0	389.0	392.5	418.8	453.8	483.6	532.1	702.0
35°	555.4	546.1	504.0	451.5	426.9	428.1	462.0	506.4	519.8	573.5	786.7
37.5°	648.9	640.7	603.9	555.4	508.7	510.5	516.3	558.9	574.7	645.4	890.1
40°	751.1	738.2	709.0	662.9	630.8	623.2	594.6	624.4	658.8	735.9	1002.8
42.5°	798.4	786.1	755.8	758.7	755.2	741.7	685.1	726.6	765.1	867.3	1127.2
45°	876.7	852.7	790.2	794.9	790.2	791.4	805.4	865.6	898.9	1006.3	1268.0
47.5°	949.1	921.6	856.2	851.5	872.0	882.5	957.8	1030.9	1033.8	1127.2	1378.4
50°	1015.1	995.2	935.1	935.7	973.0	984.7	1135.4	1202.0	1143.0	1220.1	1464.8
52.5°	1102.7	1074.7	1020.9	1040.2	1098.6	1109.1	1312.4	1352.1	1221.8	1304.2	1532.6
55°	1183.9	1168.7	1129.0	1157.6	1247.0	1274.4	1492.3	1467.7	1277.3	1378.9	1565.3
57.5°	1317.0	1302.4	1291.9	1306.5	1426.3	1460.7	1674.5	1549.5	1320.5	1428.6	1550.1
60°	1539.0	1524.4	1492.8	1506.3	1662.2	1679.7	1817.6	1632.4	1337.5	1442.6	1490.5
62.5°	1812.9	1794.8	1744.0	1805.9	1962.4	1961.8	1965.9	1676.2	1315.9	1401.1	1333.4
65°	2060.0	2034.8	2008.6	2134.7	2325.1	2298.8	2123.6	1681.5	1247.5	1200.8	1031.4
67.5°	2239.8	2229.9	2244.5	2441.3	2646.3	2620.1	2276.6	1609.1	1038.4	866.7	637.2
70°	2232.8	2212.4	2305.3	2619.5	2805.8	2784.2	2270.2	1322.3	692.7	459.1	266.9
71°	2111.9	2088.6	2229.9	2602.0	2815.1	2794.7	2188.4	1131.3	547.8	324.1	175.8
72.5°	1631.8	1702.5	1927.4	2414.5	2725.2	2698.9	1965.9	866.2	346.9	187.5	88.2
75°	690.4	728.9	1144.2	1723.5	2044.2	2030.8	1325.2	400.1	159.4	84.7	33.9
77.5°	177.6	175.2	350.4	739.4	1190.3	1211.3	610.9	137.3	82.9	60.2	19.3
80°	34.5	37.4	99.9	257.0	454.4	466.7	199.2	60.2	55.5	47.3	9.9
82.5°	3.5	4.1	17.5	79.4	152.4	147.2	43.8	22.8	33.9	32.1	4.7
85°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	2.3	8.2	8.8	1.2
87.5°	0.0	0.0	0.6	0.6	0.0	0.0	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°	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9
2.5°	449.7	455.0	460.8	464.9	469.0	469.6	475.4	474.3	476.0	476.6	476.0
5°	455.0	462.0	473.1	478.9	481.3	477.2	476.0	469.6	467.2	464.3	461.4
7.5°	460.8	469.6	482.4	485.3	477.2	462.0	449.7	434.0	419.4	410.0	411.2
10°	467.2	478.3	488.9	481.3	460.2	430.4	396.0	360.9	330.0	318.3	322.4
12.5°	475.4	488.9	493.5	472.5	431.6	371.5	309.0	255.8	223.7	204.4	202.1
15°	487.7	501.1	495.9	458.5	386.1	292.0	214.3	160.6	129.7	119.7	114.5
17.5°	502.9	515.7	495.9	433.4	321.2	209.1	130.2	97.5	87.6	85.3	85.9
20°	521.6	533.8	493.5	395.4	247.6	128.5	87.0	80.6	80.6	80.6	80.0
22.5°	546.7	553.1	490.0	345.2	170.5	87.0	77.1	76.5	77.1	77.1	77.1
25°	577.0	575.9	483.6	285.0	107.5	74.2	73.6	73.6	74.2	74.8	74.8
27.5°	617.3	605.1	472.5	213.2	75.9	68.9	70.1	71.3	72.4	73.6	73.6
30°	673.4	643.6	454.4	144.3	64.2	63.7	66.0	69.5	71.3	72.4	72.4
32.5°	733.6	683.3	423.4	92.3	59.0	58.4	60.7	66.0	70.7	71.8	71.8
35°	809.5	726.0	377.3	66.6	55.5	54.3	56.7	61.3	68.3	71.8	71.8
37.5°	889.5	771.5	310.1	56.1	52.0	50.8	52.6	56.1	64.2	70.7	71.3
40°	974.8	811.8	233.0	52.0	48.5	47.9	48.5	52.0	58.4	67.2	68.9
42.5°	1060.6	845.7	163.0	47.9	45.6	44.4	45.6	47.9	53.7	61.3	62.5
45°	1155.3	883.1	108.6	44.4	43.2	42.1	43.2	45.0	49.1	53.1	53.7
47.5°	1224.2	896.5	74.8	40.3	39.7	40.3	40.9	42.1	44.4	45.0	44.4
50°	1269.7	889.5	53.7	36.2	36.8	38.5	38.5	39.1	39.1	37.4	36.8
52.5°	1303.0	863.8	41.5	31.0	34.5	36.2	36.2	35.0	33.9	31.5	31.0
55°	1306.5	806.0	32.7	26.9	31.0	33.9	33.3	31.0	28.6	26.3	26.3
57.5°	1262.1	718.4	26.9	22.8	26.9	29.8	28.6	26.3	23.4	21.6	21.6
60°	1190.3	628.4	22.8	19.3	22.2	25.1	23.4	21.6	18.7	16.9	16.9
62.5°	1057.7	539.7	18.7	15.8	18.1	19.9	19.3	17.5	14.6	13.4	12.8
65°	810.7	410.6	14.0	12.3	14.0	16.4	15.2	13.4	11.7	9.9	9.3
67.5°	487.1	247.1	11.1	9.3	11.1	12.8	11.7	9.9	8.2	7.0	7.0
70°	206.2	105.7	8.8	7.0	8.2	9.9	9.3	8.2	6.4	5.8	5.8
71°	140.2	75.3	7.6	6.4	7.6	9.3	8.8	7.6	6.4	5.8	5.8
72.5°	71.8	38.5	6.4	5.3	7.0	8.2	8.2	7.0	5.8	5.8	5.8
75°	25.7	16.4	5.3	4.7	5.8	5.8	6.4	6.4	6.4	6.4	5.8
77.5°	14.6	9.9	4.7	4.7	4.7	5.3	6.4	7.0	7.6	7.6	7.0
80°	8.2	5.3	2.9	3.5	4.7	5.3	6.4	7.0	8.2	8.2	7.6
82.5°	4.1	1.8	0.6	1.8	2.9	4.7	5.3	5.8	7.0	6.4	6.4
85°	0.6	0.0	0.0	0.6	1.8	2.3	3.5	4.7	5.8	5.8	5.3
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.8	2.9	4.1	4.7	4.1
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)