

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: P401273

Luminaire Tested: **ENT-SA1C-730-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-730-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

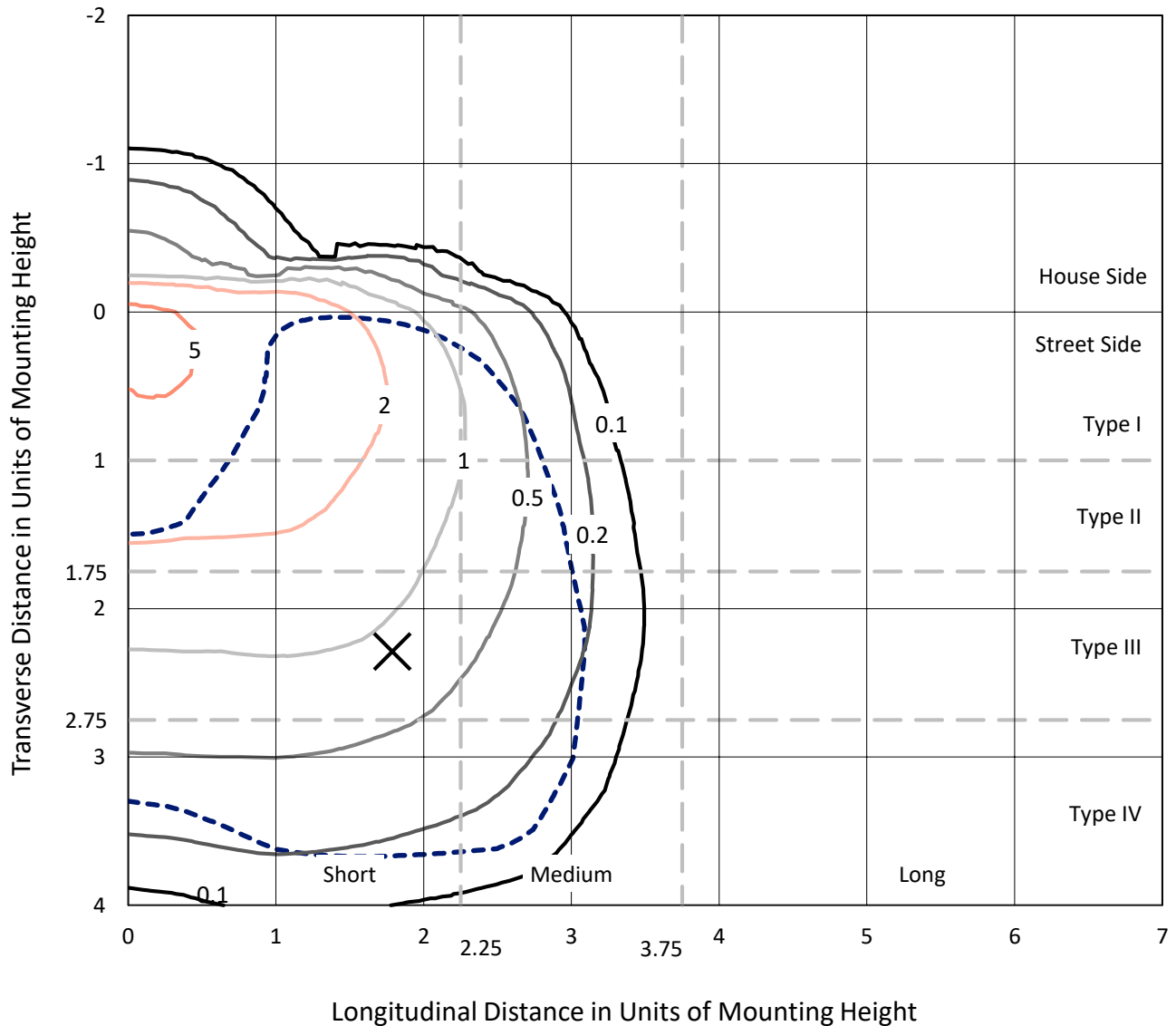


REPORT NUMBER: P401273

CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

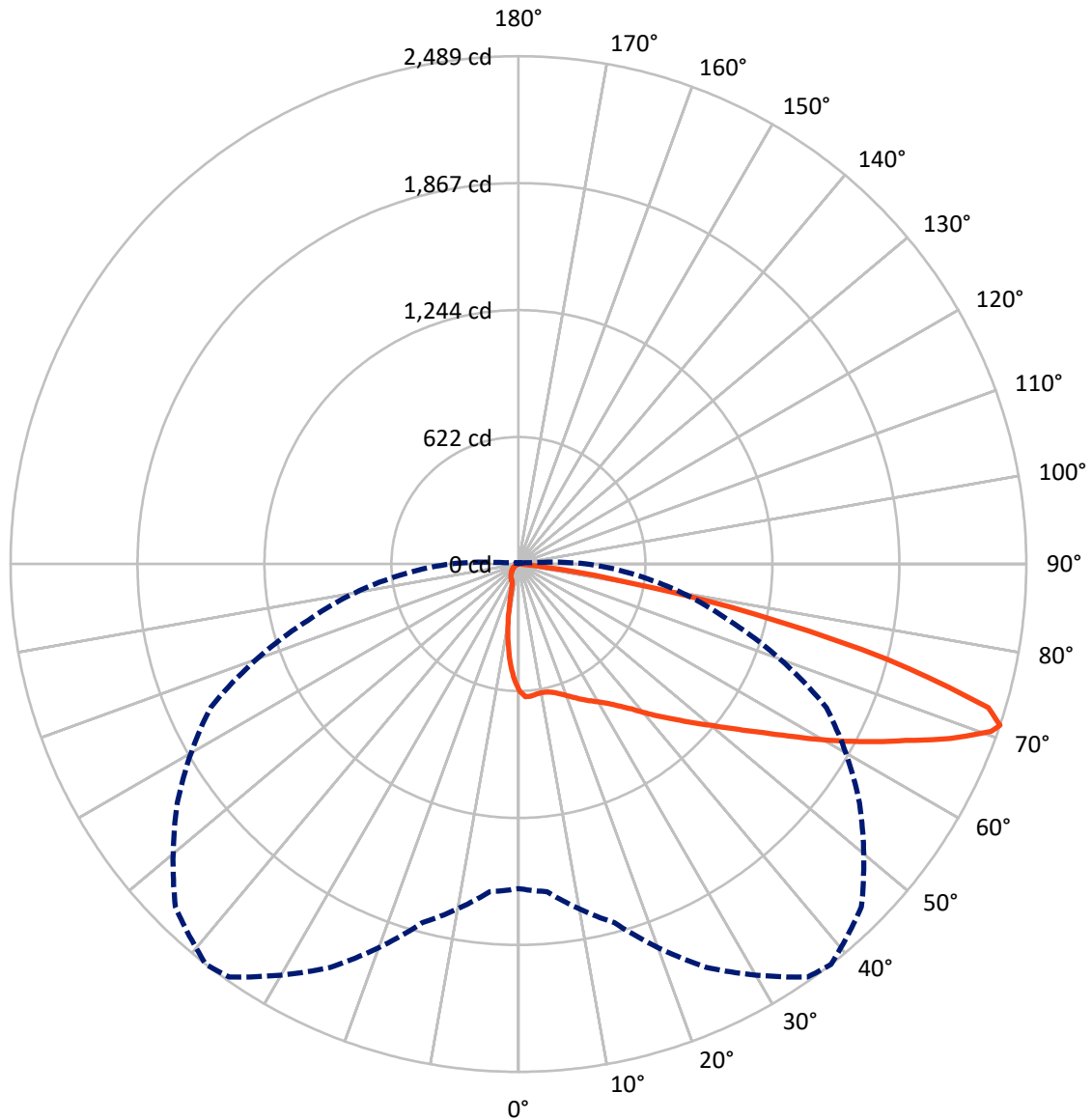
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P401273
CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P401273

CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

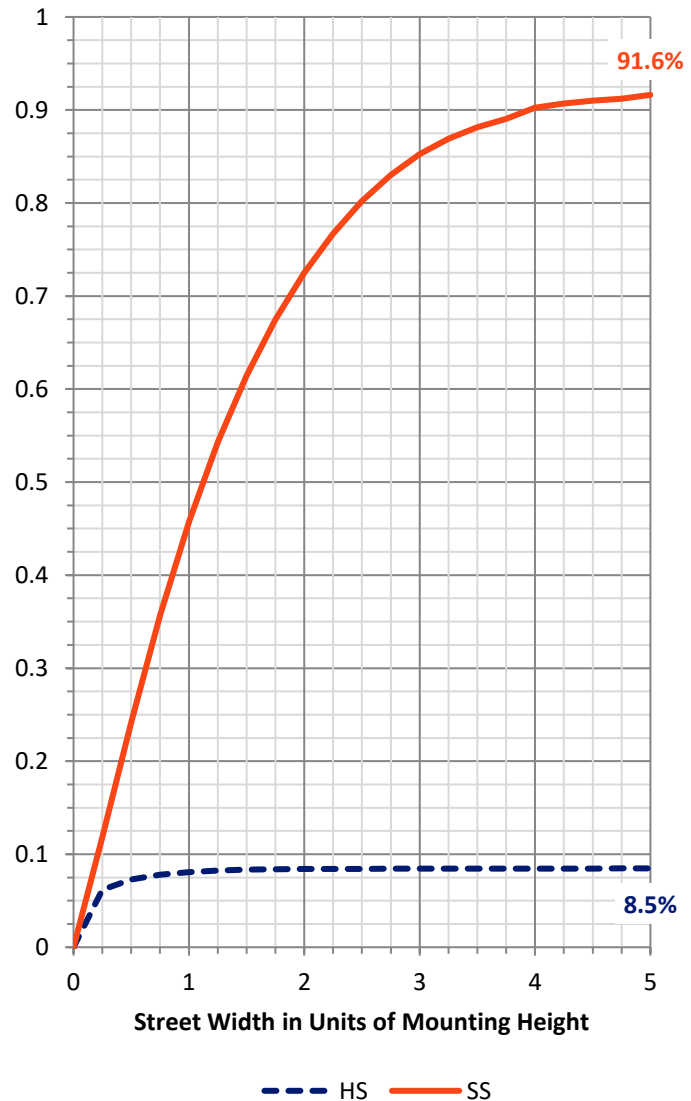
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.0	0.0	288.0
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	3083.0	0.0	3083.0
	% Fixture	91.5	0.0	91.5
Total	Lumens	3371.0	0.0	3371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.6
10°-20°	127.1	3.8
20°-30°	203.8	6.0
30°-40°	310.0	9.2
40°-50°	483.2	14.3
50°-60°	706.5	21.0
60°-70°	906.2	26.9
70°-80°	553.9	16.4
80°-90°	27.8	0.8
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°	3371.0	100.0
0°-180°	3371.0	100.0



REPORT NUMBER: P401273

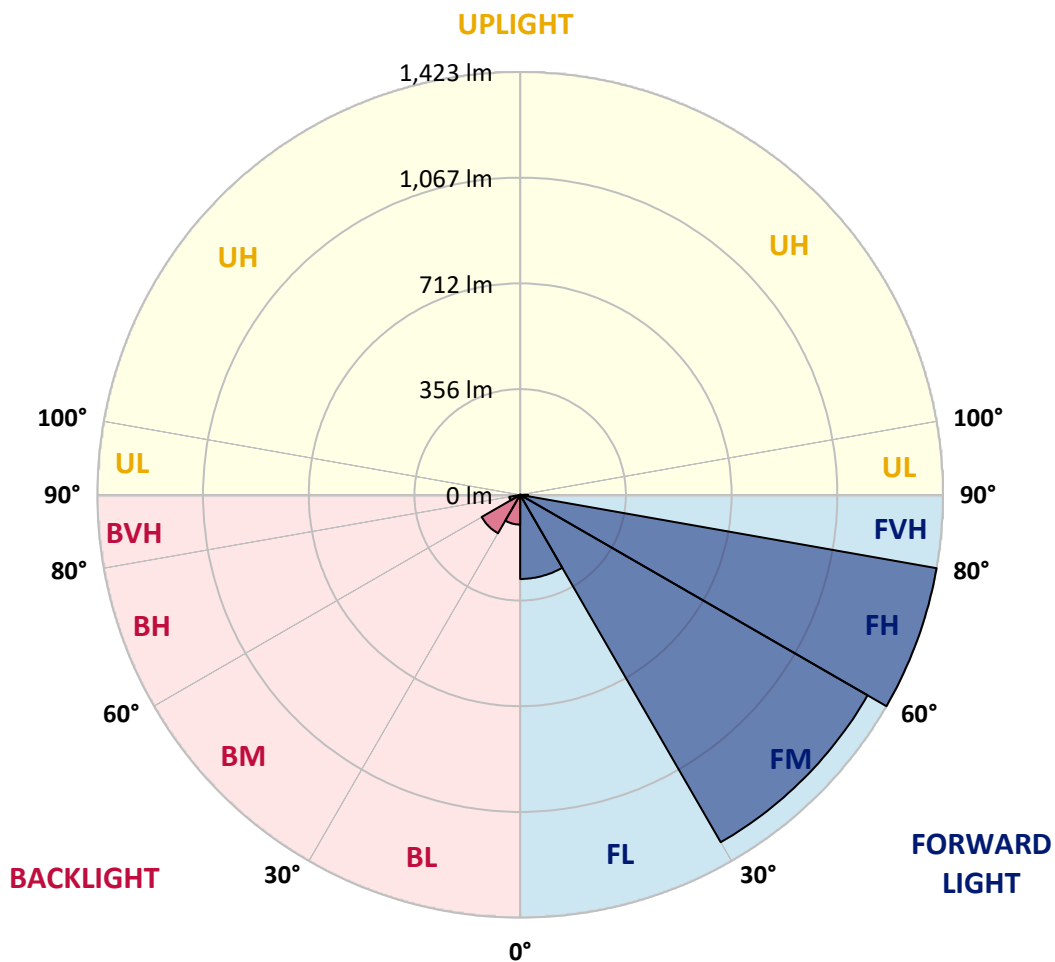
CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.2	8.4			
FM	(30°-60°)	1350.1	40.1			
FH	(60°-80°)	1423.1	42.2			G1/1800
FVH	(80°-90°)	26.6	0.8			G1/100
BL	(0°-30°)	100.1	3.0	B0/110		
BM	(30°-60°)	149.6	4.4	B0/220		
BH	(60°-80°)	37.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P401273

CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	658.2	656.5	658.2	656.5	653.0	651.2	648.9	642.5	636.6	629.6	619.1
5°	659.4	658.2	658.2	655.9	651.8	650.1	647.7	641.3	633.7	623.2	607.4
7.5°	653.0	652.4	651.2	648.9	644.2	643.1	641.3	633.7	626.1	615.0	595.8
10°	642.5	643.6	643.1	643.1	641.3	640.1	639.0	630.2	622.0	609.2	588.7
12.5°	632.5	633.7	636.6	641.3	643.1	643.6	643.6	634.9	625.0	610.9	589.9
15°	626.1	628.5	636.6	646.0	651.2	653.0	654.7	645.4	633.7	618.5	596.3
17.5°	624.4	627.9	643.6	658.2	668.2	669.3	669.3	657.7	645.4	627.9	603.9
20°	630.2	634.9	655.3	675.8	688.0	689.2	686.9	671.7	657.1	637.8	610.4
22.5°	647.7	651.8	675.2	699.1	710.8	712.0	706.7	685.7	669.9	654.2	619.1
25°	678.1	680.4	705.6	728.3	734.8	736.5	727.8	702.6	684.5	669.9	631.4
27.5°	718.4	719.6	742.4	759.3	760.5	759.9	750.5	724.2	706.1	693.9	650.1
30°	760.5	762.2	780.9	792.0	787.3	785.0	776.8	748.8	732.4	723.1	676.9
32.5°	799.6	801.3	821.8	827.6	817.1	815.4	809.5	779.7	765.7	770.4	715.5
35°	838.1	838.1	861.5	864.4	855.1	855.1	855.1	819.5	817.1	832.9	769.2
37.5°	872.6	878.4	903.0	901.8	900.1	901.2	904.7	877.9	886.0	912.9	839.9
40°	901.8	909.4	942.1	945.0	952.6	959.0	964.3	950.3	969.6	1013.4	930.4
42.5°	928.1	936.8	978.9	992.3	1013.4	1022.1	1032.1	1028.5	1071.2	1151.2	1046.1
45°	962.0	971.3	1014.5	1046.7	1075.9	1087.5	1109.7	1124.9	1195.6	1286.7	1171.1
47.5°	1006.9	1013.4	1053.1	1103.9	1143.6	1164.6	1199.1	1238.2	1324.1	1430.4	1282.6
50°	1068.3	1068.8	1098.6	1164.6	1223.6	1246.4	1306.0	1356.8	1464.3	1557.1	1363.2
52.5°	1136.0	1132.5	1155.9	1239.4	1314.2	1345.1	1415.2	1485.9	1593.9	1648.8	1399.4
55°	1200.3	1202.0	1216.6	1318.8	1428.1	1457.8	1546.6	1618.5	1712.5	1704.9	1419.3
57.5°	1274.4	1273.9	1292.5	1405.9	1561.2	1595.7	1688.5	1747.5	1784.3	1745.2	1422.8
60°	1344.5	1342.8	1371.4	1509.8	1703.1	1754.0	1837.5	1835.1	1856.2	1770.9	1419.9
62.5°	1407.0	1411.1	1461.3	1630.7	1862.0	1916.9	1959.0	1929.8	1935.6	1800.7	1383.7
65°	1483.0	1490.5	1571.7	1777.3	2058.3	2084.5	2100.9	2053.6	1995.2	1776.7	1273.9
67.5°	1578.7	1601.5	1716.0	1993.4	2262.7	2280.8	2281.4	2128.4	1992.8	1655.8	1071.2
70°	1616.7	1640.7	1822.9	2164.6	2435.0	2457.8	2386.5	2116.7	1835.7	1296.6	723.1
71°	1590.4	1612.0	1820.0	2180.9	2470.6	2488.7	2377.2	2040.2	1664.6	1068.3	560.1
72.5°	1400.6	1456.7	1707.8	2078.1	2407.0	2407.5	2225.9	1859.7	1324.1	667.0	281.5
75°	756.4	824.1	1251.7	1581.7	1856.8	1871.4	1712.5	1291.4	640.7	172.9	68.3
77.5°	249.4	280.9	561.3	821.2	1164.6	1187.4	1047.2	573.6	202.1	58.4	35.6
80°	156.5	160.0	189.8	345.2	518.1	537.3	431.0	232.5	91.1	32.1	24.5
82.5°	26.3	31.5	89.4	101.6	182.8	144.8	98.1	118.6	42.6	14.6	21.0
85°	0.0	0.0	0.6	0.6	2.9	0.6	0.6	23.9	2.3	2.3	11.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	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



REPORT NUMBER: P401273

CATALOG NUMBER: ENT-SA1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	614.4	609.8	600.4	590.5	578.2	567.7	564.2	556.6	553.1	550.2	550.2
5°	597.5	589.3	569.5	549.0	529.2	508.1	488.9	470.8	462.0	449.7	455.6
7.5°	583.5	569.5	541.4	509.3	468.4	427.0	394.8	366.8	343.4	335.8	330.6
10°	573.6	556.0	515.1	466.1	406.5	347.5	297.9	251.7	224.9	208.5	208.5
12.5°	572.4	550.2	497.0	421.7	335.8	255.8	194.5	150.7	129.1	119.2	118.6
15°	576.5	549.6	480.7	381.4	271.0	177.6	121.5	102.2	97.0	95.8	95.8
17.5°	580.0	549.0	461.4	335.8	199.8	116.8	96.4	92.9	91.7	91.1	91.1
20°	583.5	546.1	439.2	284.4	141.3	95.2	89.9	88.2	87.6	87.0	87.0
22.5°	588.2	543.2	416.4	226.0	104.5	88.8	85.9	84.1	83.5	83.5	83.5
25°	594.6	541.4	388.4	171.1	89.9	84.1	81.2	80.0	80.0	79.4	79.4
27.5°	606.8	543.2	358.0	122.7	84.1	79.4	77.7	76.5	76.5	75.9	75.9
30°	623.8	548.4	320.1	95.8	79.4	74.8	73.0	72.4	71.8	71.8	71.8
32.5°	647.7	556.6	278.6	81.8	73.6	70.1	68.3	67.8	67.8	67.8	67.2
35°	684.5	573.6	227.8	74.8	68.3	64.8	63.1	63.1	63.1	62.5	63.1
37.5°	740.6	601.0	176.4	68.9	62.5	59.6	58.4	57.8	57.8	57.8	57.8
40°	811.3	645.4	128.5	63.7	57.2	54.3	53.2	52.6	52.0	52.0	52.0
42.5°	902.4	694.5	93.5	57.8	52.6	49.6	48.5	47.3	46.1	45.6	45.6
45°	997.0	752.9	73.0	53.2	47.9	45.6	44.4	42.6	40.9	39.1	39.1
47.5°	1088.7	797.8	62.5	47.9	43.8	41.5	40.3	38.0	35.0	33.3	33.3
50°	1146.5	811.9	56.1	43.2	39.7	38.0	36.2	33.3	29.2	27.5	27.5
52.5°	1164.6	786.2	50.2	39.1	36.2	34.5	32.1	28.0	23.9	21.6	21.6
55°	1171.6	736.5	44.4	36.2	32.7	30.4	27.5	23.4	19.3	16.9	16.9
57.5°	1162.9	666.4	39.7	32.7	29.2	26.9	23.4	18.7	14.6	12.8	12.8
60°	1133.1	564.8	35.6	29.2	25.7	22.8	19.3	14.6	11.1	8.8	9.3
62.5°	1052.5	436.9	31.0	24.5	22.2	19.3	15.2	11.1	7.0	5.8	5.8
65°	924.0	302.5	26.3	20.4	18.7	15.8	11.7	7.6	4.1	3.5	3.5
67.5°	750.5	195.7	20.4	16.9	15.8	12.8	8.8	4.7	2.3	2.3	1.8
70°	471.3	97.0	16.4	12.8	12.8	9.9	6.4	2.9	1.8	1.8	1.8
71°	333.5	66.0	14.6	11.7	11.7	9.3	5.8	2.3	1.8	1.8	1.8
72.5°	150.7	41.5	12.3	10.5	9.9	7.6	5.3	2.3	2.3	2.3	2.3
75°	47.3	22.8	8.8	8.2	8.2	6.4	4.7	2.9	2.9	2.9	2.9
77.5°	31.5	17.5	5.8	5.3	6.4	6.4	4.7	3.5	3.5	3.5	3.5
80°	25.7	9.3	3.5	3.5	4.7	5.8	4.7	3.5	4.1	3.5	3.5
82.5°	25.1	4.7	1.2	1.8	2.9	3.5	3.5	2.9	3.5	3.5	3.5
85°	10.5	1.2	0.6	1.2	1.2	1.8	1.8	2.3	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2	1.8	2.3	2.3
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)