

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: P401467

Luminaire Tested: **ENC-SA1D-735-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1D-735-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4287 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

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

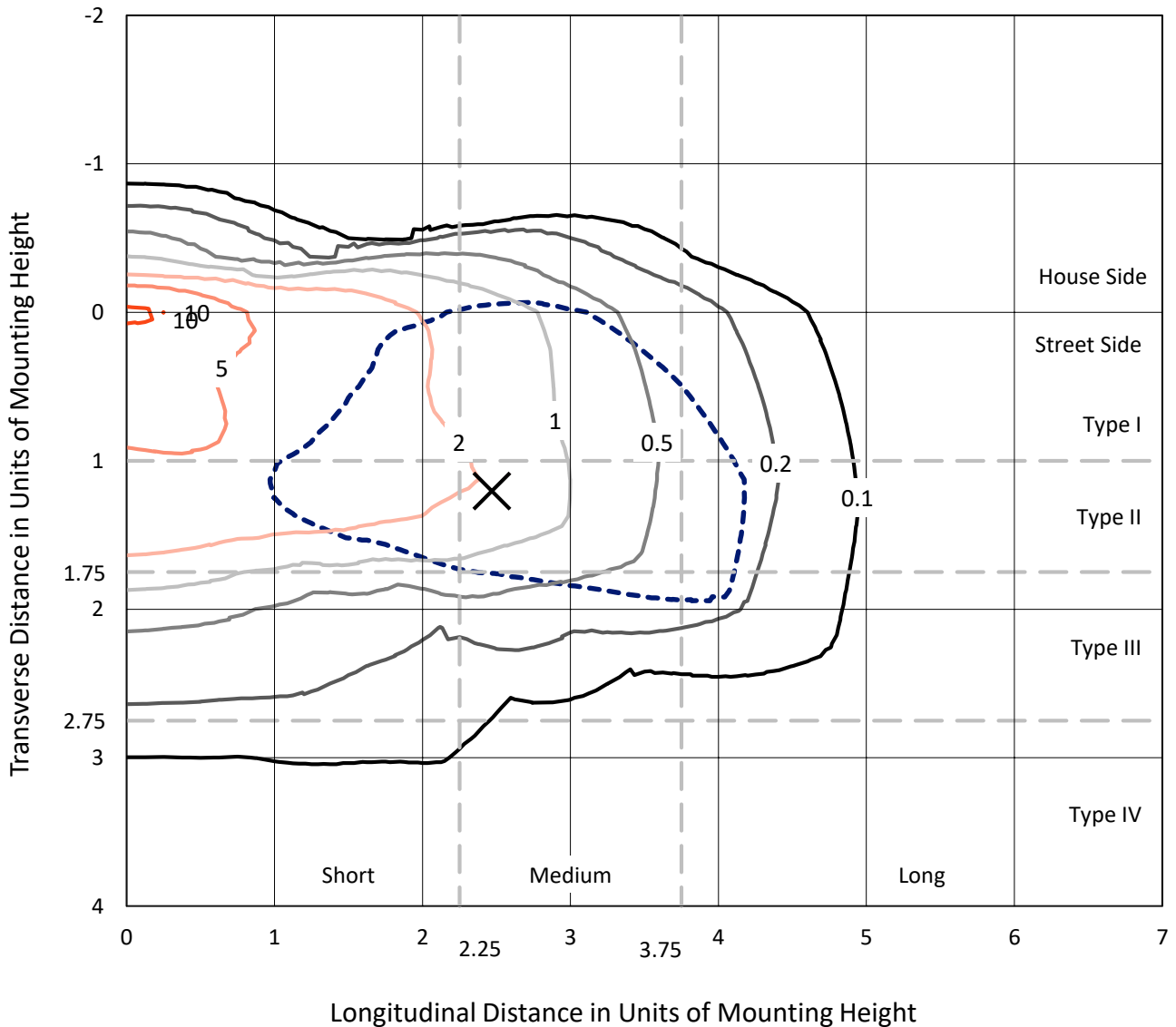


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

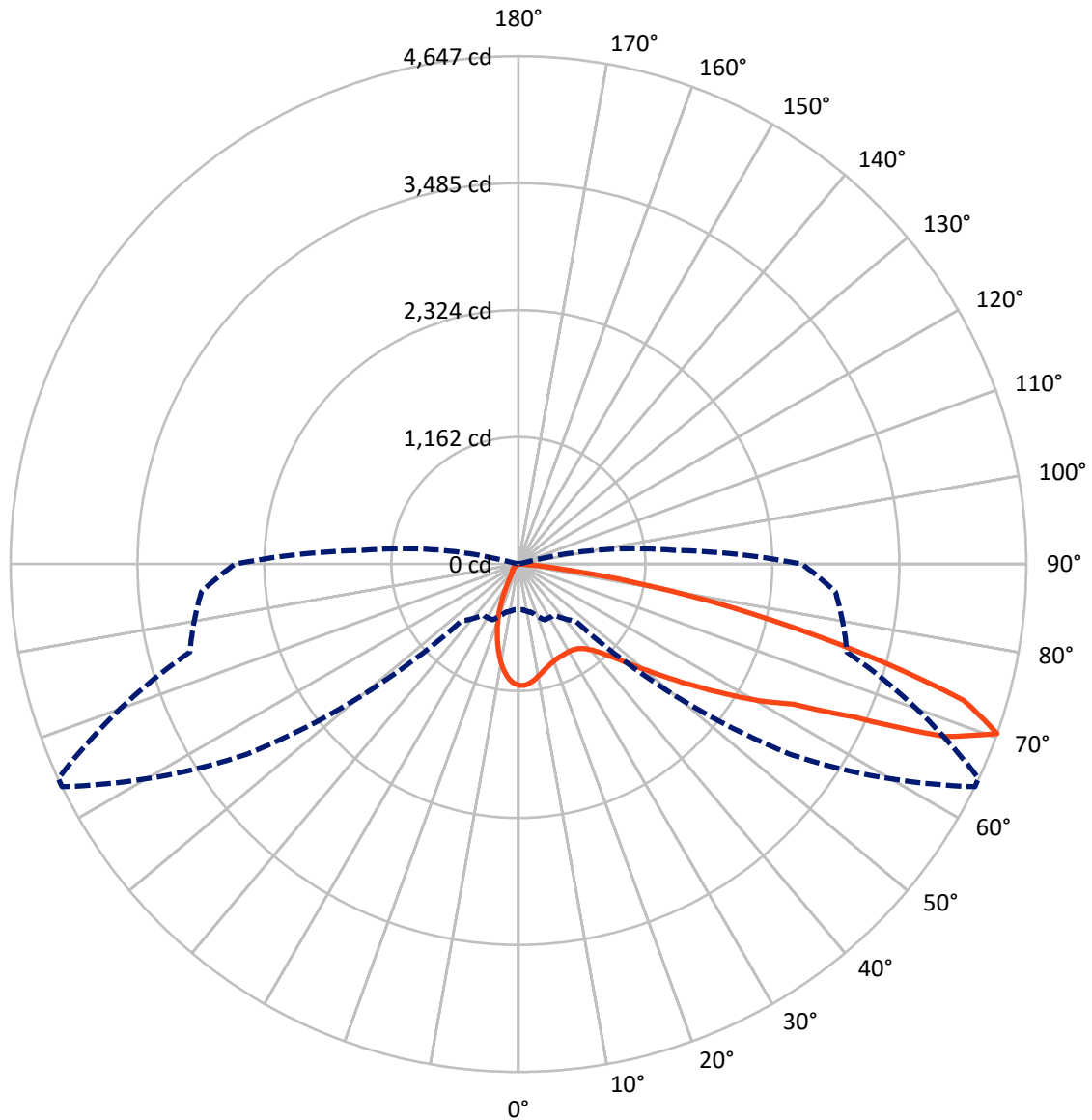


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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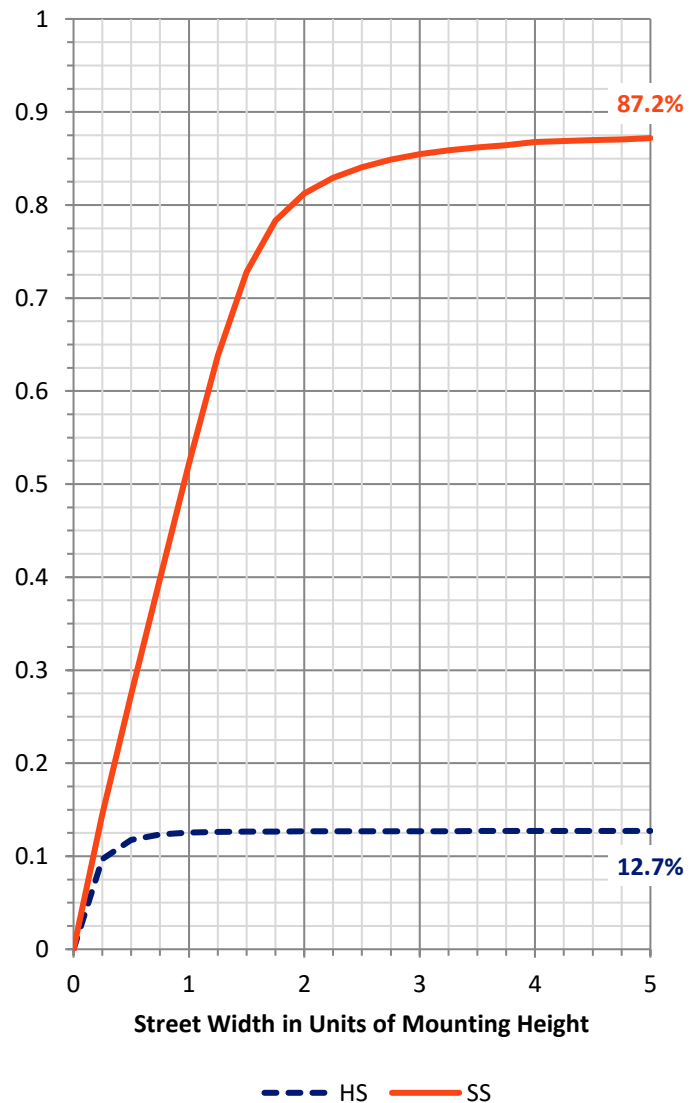
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.7	0.0	550.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3736.3	0.0	3736.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	4287.0	0.0	4287.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.2
10°-20°	207.5	4.8
20°-30°	285.8	6.7
30°-40°	393.5	9.2
40°-50°	586.6	13.7
50°-60°	926.6	21.6
60°-70°	1050.0	24.5
70°-80°	689.4	16.1
80°-90°	54.1	1.3
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°	4287.0	100.0
0°-180°	4287.0	100.0



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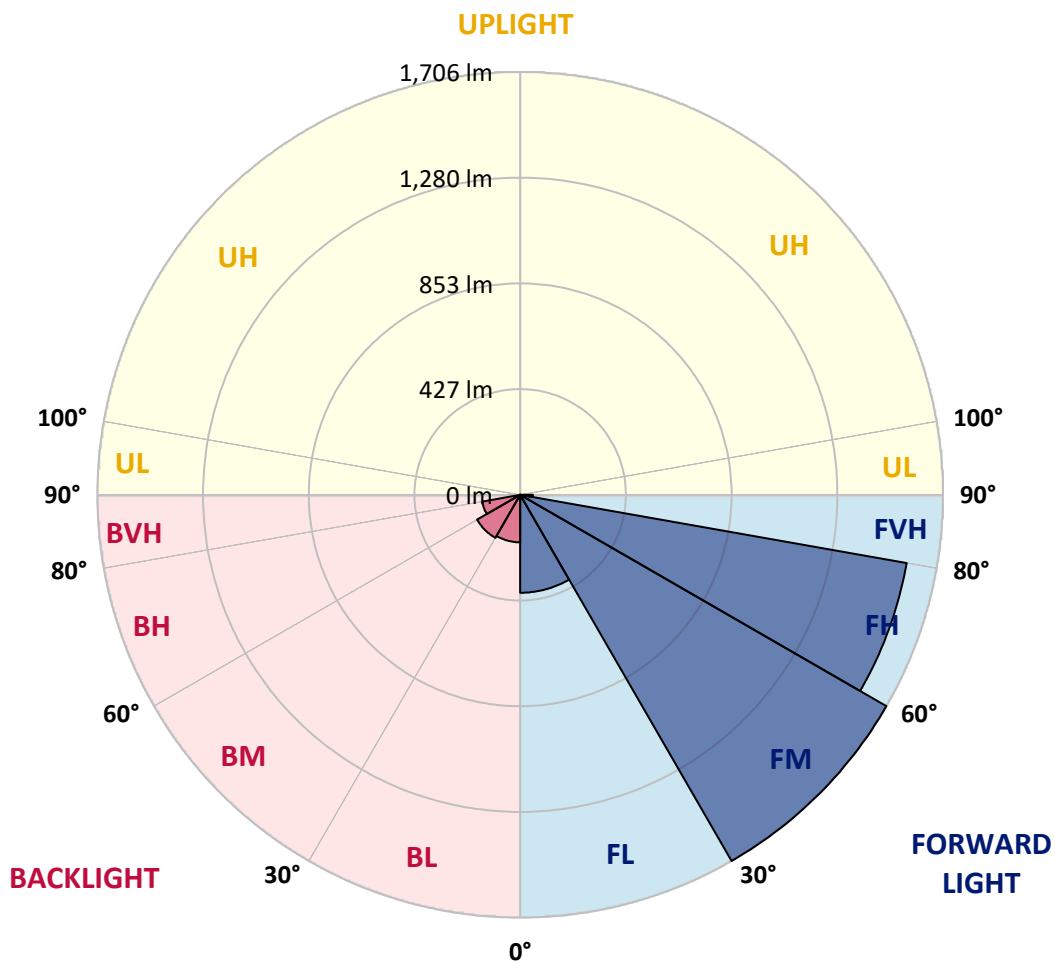
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.2	9.2			
FM	(30°-60°)	1706.2	39.8			
FH	(60°-80°)	1583.9	36.9			G1/1800
FVH	(80°-90°)	51.1	1.2			G1/100
BL	(0°-30°)	191.7	4.5	B1/500		
BM	(30°-60°)	200.6	4.7	B0/220		
BH	(60°-80°)	155.5	3.6	B1/500		G1/500
BVH	(80°-90°)	3.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1078.8	1078.8	1084.1	1089.4	1092.4	1100.7	1106.7	1111.3	1111.3	1114.3	1109.0
5°	1007.2	1007.2	1011.7	1024.6	1038.1	1055.5	1075.1	1094.7	1098.4	1112.8	1112.0
7.5°	940.9	946.9	954.4	967.3	981.6	1007.2	1034.4	1068.3	1072.0	1106.7	1114.3
10°	894.9	898.6	903.2	917.5	938.6	968.0	997.4	1037.4	1044.2	1096.2	1114.3
12.5°	857.9	858.7	865.5	881.3	901.7	930.3	963.5	1007.2	1015.5	1077.3	1111.3
15°	831.6	830.8	838.3	853.4	873.0	902.4	934.8	980.8	989.9	1061.5	1110.5
17.5°	815.7	816.5	822.5	833.8	852.7	880.6	913.7	959.0	968.0	1048.7	1114.3
20°	815.7	815.7	819.5	824.8	839.1	864.0	896.4	943.1	952.2	1040.4	1119.5
22.5°	831.6	830.0	833.1	828.5	835.3	852.7	885.8	932.6	942.4	1036.6	1127.8
25°	860.2	857.2	859.4	849.6	842.1	849.6	879.0	928.1	938.6	1037.4	1135.4
27.5°	900.2	900.2	895.6	882.1	863.2	854.9	878.3	925.0	935.6	1037.4	1140.7
30°	955.9	953.7	946.9	933.3	903.9	876.0	885.8	925.0	935.6	1038.1	1142.2
32.5°	1011.7	1013.2	1017.0	1003.4	963.5	912.2	903.9	931.8	940.9	1037.4	1139.9
35°	1068.3	1069.0	1085.6	1087.1	1035.9	970.3	934.8	949.9	955.9	1044.9	1141.4
37.5°	1118.0	1121.8	1154.2	1170.1	1127.8	1044.9	983.8	983.8	986.9	1065.3	1150.5
40°	1173.8	1183.6	1222.8	1258.3	1241.7	1140.7	1055.5	1033.6	1035.1	1102.2	1170.8
42.5°	1238.7	1250.7	1302.0	1353.3	1352.5	1258.3	1145.9	1112.8	1114.3	1166.3	1212.3
45°	1320.8	1329.1	1394.0	1458.0	1471.6	1387.9	1259.8	1216.0	1217.6	1263.5	1292.9
47.5°	1421.1	1430.9	1493.5	1570.4	1605.1	1544.0	1407.5	1360.0	1355.5	1387.9	1409.0
50°	1552.3	1571.1	1608.1	1682.0	1765.6	1724.9	1580.9	1533.4	1527.4	1553.0	1559.8
52.5°	1677.4	1694.8	1709.8	1777.7	1939.8	1949.6	1793.5	1741.5	1735.5	1741.5	1749.8
55°	1696.3	1706.1	1717.4	1809.4	2080.8	2235.3	2035.5	1973.7	1956.4	1945.1	1973.0
57.5°	1546.3	1540.2	1577.9	1703.1	2104.1	2551.2	2362.7	2242.9	2226.3	2163.7	2135.8
60°	1224.3	1216.0	1251.5	1422.6	1973.0	2708.0	2816.6	2540.6	2499.9	2290.4	2263.2
62.5°	860.2	850.4	896.4	997.4	1530.4	2677.1	3328.5	2822.6	2741.9	2402.7	2365.7
65°	662.7	658.2	683.0	705.7	934.1	2319.0	3610.4	3373.0	3206.3	2524.8	2477.3
67.5°	519.4	525.5	556.4	622.0	603.1	1445.2	3584.0	4212.8	4046.2	2749.5	2719.3
70°	417.7	419.2	457.6	562.4	569.2	735.8	3034.5	4647.0	4644.8	3112.1	2911.6
72.5°	252.6	259.3	321.9	486.3	574.5	563.2	2040.1	4258.0	4316.8	3196.5	2625.8
75°	121.4	128.2	166.6	326.4	570.7	548.1	1103.7	3223.7	3299.1	2866.3	2129.0
77.5°	45.2	51.3	76.9	159.8	422.9	502.1	580.5	2173.5	2233.1	2098.1	1442.2
80°	14.3	16.6	30.2	73.1	214.9	414.6	373.9	1225.8	1265.8	918.3	484.8
82.5°	1.5	2.3	8.3	24.9	82.9	211.1	219.4	461.4	481.7	179.4	98.0
85°	0.0	0.0	0.0	0.0	1.5	1.5	54.3	88.2	72.4	17.3	28.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3	2.3	2.3	3.0
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°	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1108.2	1108.2	1103.0	1094.7	1084.1	1069.0	1065.3	1053.2	1053.2	1043.4	1041.9
5°	1109.7	1105.2	1087.9	1062.2	1026.8	988.4	964.2	937.9	915.2	900.9	902.4
7.5°	1109.7	1099.9	1065.3	1008.7	942.4	876.0	825.5	766.7	739.6	721.5	729.8
10°	1106.7	1090.1	1029.8	943.9	839.1	747.1	664.2	596.3	549.6	530.0	513.4
12.5°	1099.9	1075.8	985.3	863.2	729.0	608.4	493.8	404.8	343.0	312.1	308.3
15°	1093.9	1060.7	933.3	775.0	604.6	447.1	318.9	233.7	180.9	168.9	170.4
17.5°	1092.4	1046.4	883.6	681.5	483.3	297.8	184.0	148.5	141.0	138.0	137.2
20°	1093.2	1033.6	829.3	588.8	342.3	185.5	139.5	131.2	128.2	126.7	125.9
22.5°	1096.2	1019.3	775.8	491.5	233.7	135.7	124.4	119.1	115.3	113.1	112.3
25°	1096.2	1003.4	716.2	388.3	153.0	119.1	111.6	104.8	99.5	96.5	96.5
27.5°	1093.9	985.3	654.4	294.8	121.4	106.3	98.0	89.0	82.2	78.4	78.4
30°	1087.1	963.5	594.8	205.8	106.3	95.0	84.4	73.1	64.8	61.1	59.6
32.5°	1077.3	940.1	526.2	144.7	95.7	82.9	70.9	58.8	51.3	46.7	46.7
35°	1066.8	916.7	452.3	110.8	86.7	73.1	59.6	47.5	40.7	37.7	36.9
37.5°	1061.5	891.9	380.0	95.7	77.7	62.6	48.2	38.4	33.2	30.9	30.2
40°	1065.3	873.0	309.1	85.9	69.4	52.8	40.0	32.4	27.9	24.9	24.9
42.5°	1087.9	862.5	242.0	78.4	61.8	44.5	33.2	26.4	21.9	19.6	19.6
45°	1133.9	870.0	184.0	71.6	52.8	36.9	27.9	21.1	16.6	14.3	14.3
47.5°	1210.8	900.2	139.5	65.6	45.2	30.2	22.6	16.6	12.8	11.3	10.6
50°	1323.1	959.7	109.3	59.6	37.7	25.6	18.8	12.8	9.8	8.3	8.3
52.5°	1485.2	1063.0	93.5	52.8	30.9	21.1	15.1	9.8	7.5	6.0	6.0
55°	1684.2	1194.2	84.4	46.7	24.9	17.3	12.1	7.5	5.3	4.5	3.8
57.5°	1845.5	1298.2	79.2	40.7	21.1	15.1	9.0	6.0	4.5	3.0	3.0
60°	1988.0	1365.3	70.1	33.9	18.1	12.1	7.5	4.5	3.0	2.3	2.3
62.5°	2103.4	1409.0	58.1	27.1	15.1	9.8	6.0	3.8	3.0	2.3	2.3
65°	2234.6	1444.5	47.5	21.1	12.8	8.3	5.3	3.0	2.3	2.3	2.3
67.5°	2491.6	1523.6	35.4	16.6	9.8	6.8	4.5	3.0	2.3	1.5	1.5
70°	2591.9	1430.9	27.9	13.6	7.5	6.0	4.5	3.0	1.5	1.5	1.5
72.5°	2205.9	1071.3	21.9	11.3	6.8	5.3	4.5	3.0	2.3	2.3	1.5
75°	1749.8	723.7	17.3	9.0	6.8	6.0	4.5	4.5	3.8	3.0	3.0
77.5°	1117.3	320.4	13.6	7.5	6.8	7.5	6.8	4.5	4.5	3.8	3.8
80°	333.2	76.9	9.8	6.0	5.3	6.0	6.8	4.5	3.0	2.3	2.3
82.5°	72.4	18.1	6.0	3.0	3.8	3.0	4.5	4.5	3.0	2.3	2.3
85°	24.1	6.8	3.8	3.0	2.3	2.3	2.3	2.3	2.3	2.3	1.5
87.5°	1.5	2.3	2.3	1.5	1.5	1.5	1.5	0.8	0.8	1.5	1.5
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)