

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: P367434

Luminaire Tested: **MSA-SA2C-730-U-T4W**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-730-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11391 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

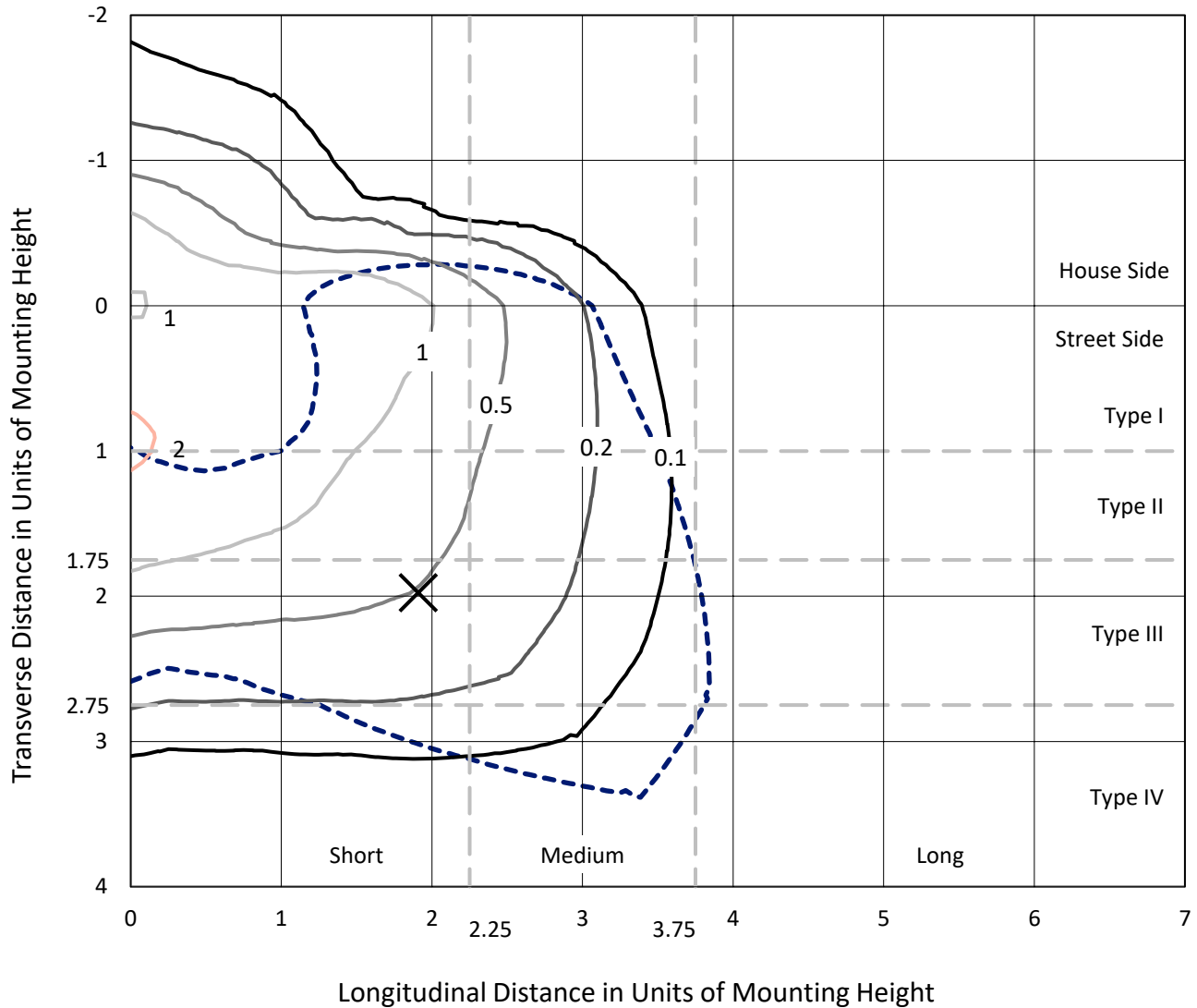
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367434
 CATALOG NUMBER: MSA-SA2C-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

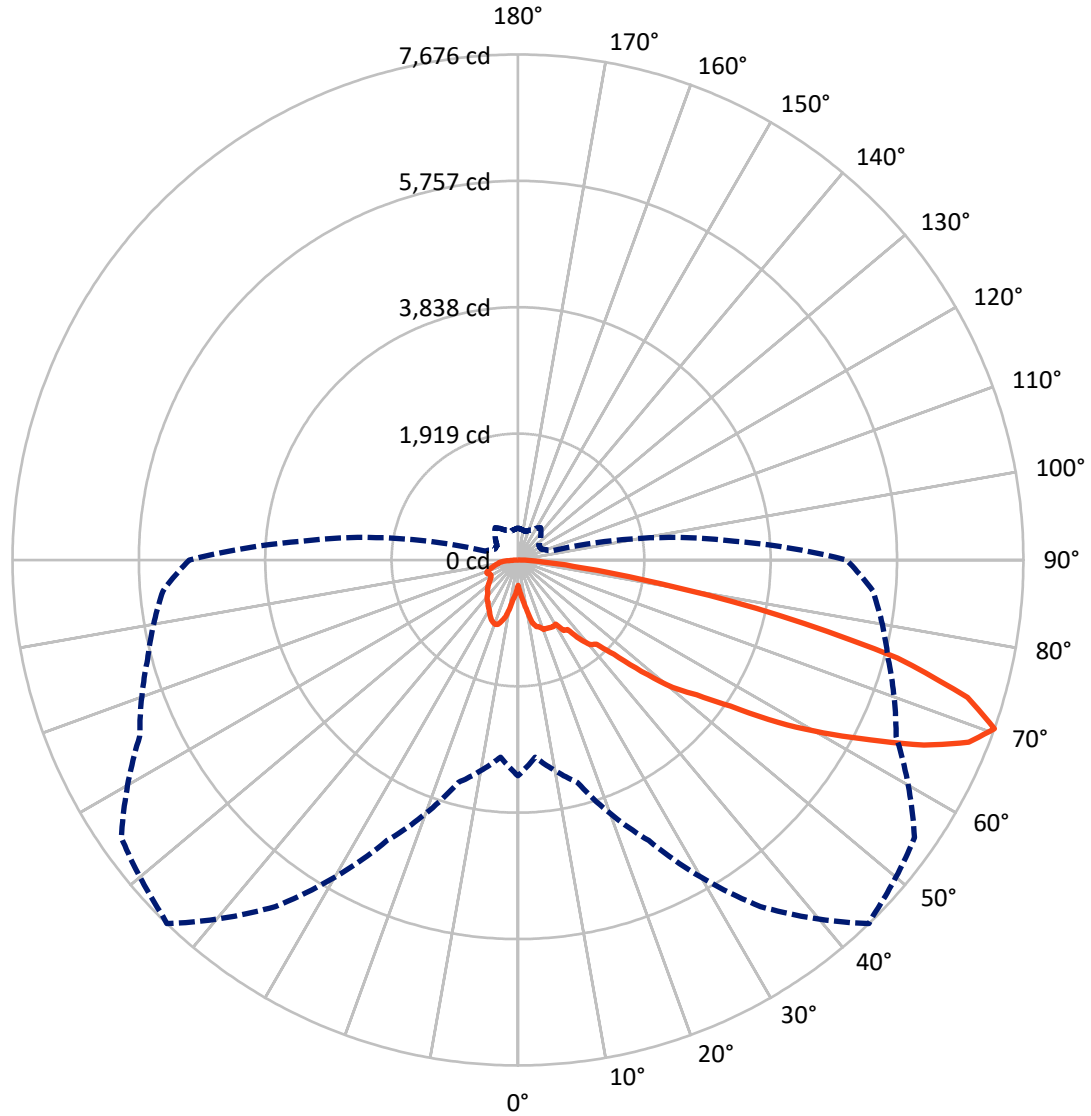
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P367434
CATALOG NUMBER: MSA-SA2C-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P367434

CATALOG NUMBER: MSA-SA2C-730-U-T4W

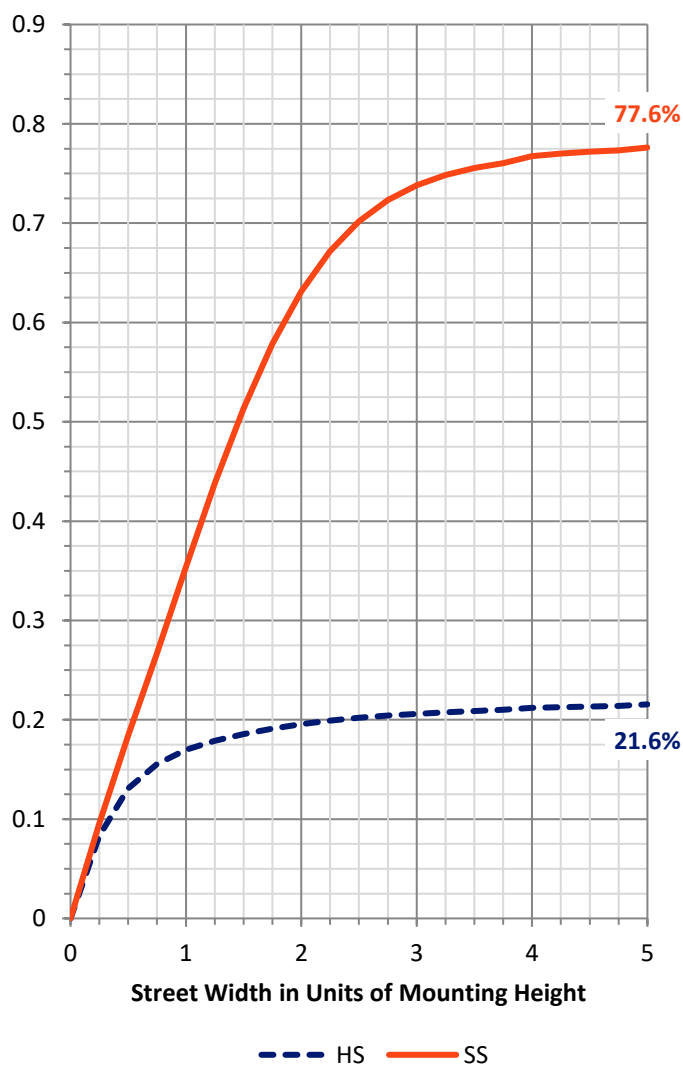
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.3	0.0	2513.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	8877.7	0.0	8877.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	11391.0	0.0	11391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	0.5
10°-20°	279.6	2.5
20°-30°	522.4	4.6
30°-40°	838.6	7.4
40°-50°	1415.4	12.4
50°-60°	2522.2	22.1
60°-70°	3450.1	30.3
70°-80°	2028.8	17.8
80°-90°	273.2	2.4
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°	11391.0	100.0
0°-180°	11391.0	100.0

Coefficient of Utilization



REPORT NUMBER: P367434

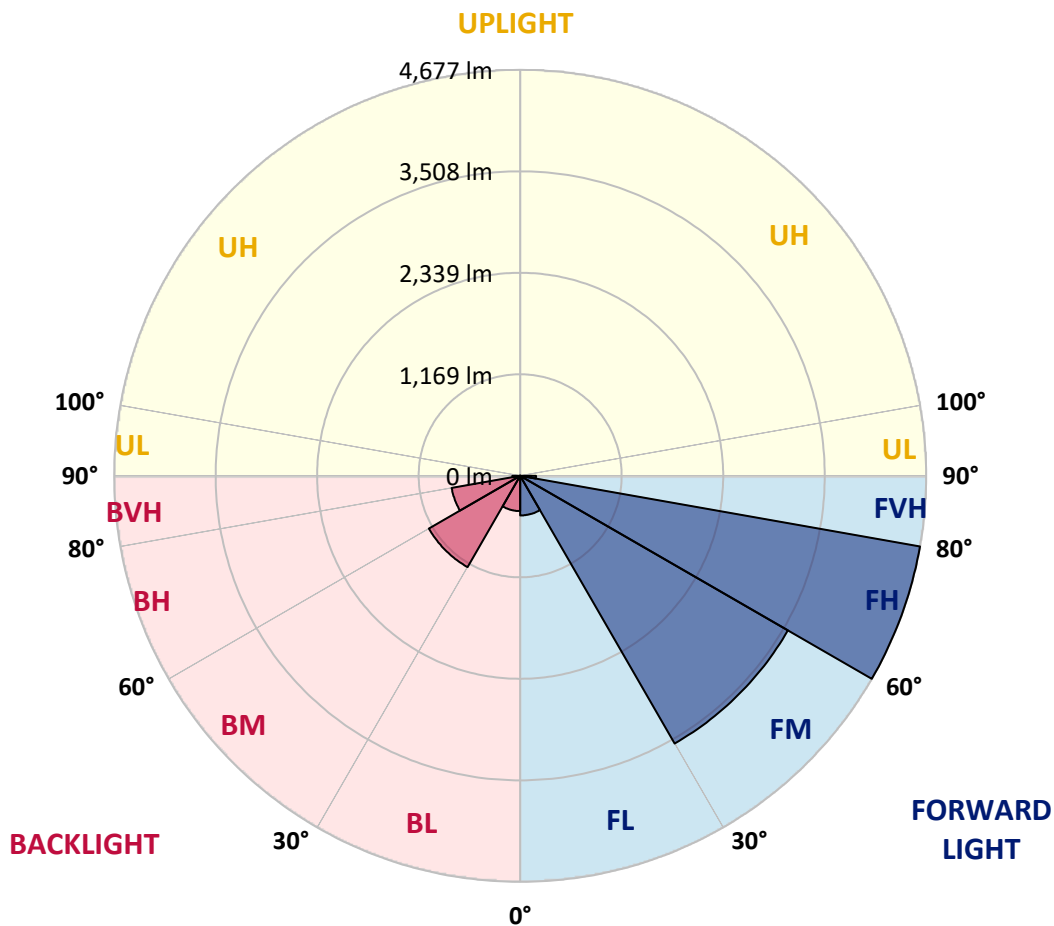
CATALOG NUMBER: MSA-SA2C-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.5	4.0			
FM (30°-60°)	3561.7	31.3			
FH (60°-80°)	4677.5	41.1			G2/5000
FVH (80°-90°)	182.1	1.6			G2/225
BL (0°-30°)	406.2	3.6	B1/500		
BM (30°-60°)	1214.6	10.7	B2/2500		
BH (60°-80°)	801.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	91.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P367434

CATALOG NUMBER: MSA-SA2C-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2
2.5°	469.9	460.5	438.1	445.6	454.9	458.7	457.7	456.8	442.3	437.2	462.9
5°	638.5	617.9	601.6	595.0	573.6	556.7	546.5	573.6	569.3	576.4	594.1
7.5°	797.3	784.2	747.3	734.2	690.3	661.4	658.1	679.6	685.2	674.0	704.3
10°	899.6	877.1	869.7	838.4	808.0	803.3	800.5	790.7	777.2	776.3	749.2
12.5°	979.0	990.6	996.7	960.7	961.7	978.5	969.6	929.9	907.0	866.9	870.1
15°	1121.4	1138.2	1090.1	1067.2	1023.3	1048.6	1045.3	1012.1	1008.9	982.7	952.3
17.5°	1245.7	1253.1	1172.8	1120.5	1105.5	1069.1	1078.9	1079.8	1036.9	1083.6	1056.5
20°	1255.9	1282.6	1190.1	1085.9	1130.8	1126.1	1127.5	1118.1	1061.6	1138.7	1128.4
22.5°	1306.4	1265.7	1182.6	1106.5	1118.1	1125.2	1131.7	1120.5	1117.2	1160.2	1191.5
25°	1297.0	1284.0	1199.9	1135.4	1136.8	1138.2	1141.5	1175.1	1171.4	1229.8	1246.1
27.5°	1384.4	1364.3	1205.0	1189.1	1152.7	1144.8	1122.4	1192.4	1247.1	1245.7	1335.8
30°	1550.6	1530.1	1324.6	1278.4	1212.5	1131.2	1174.2	1267.6	1310.6	1325.1	1439.5
32.5°	1810.3	1844.0	1560.0	1373.6	1291.9	1274.1	1269.5	1260.1	1366.6	1438.1	1542.2
35°	2183.1	2156.4	1837.4	1577.7	1375.5	1299.4	1309.6	1366.6	1493.2	1539.4	1635.7
37.5°	2609.9	2554.8	2192.9	1808.9	1616.5	1521.2	1487.1	1542.2	1570.3	1606.7	1803.3
40°	3043.8	2909.3	2541.8	2113.0	1761.3	1689.4	1659.5	1591.8	1657.6	1731.4	1981.3
42.5°	3462.8	3358.6	2921.5	2475.9	2005.1	1748.7	1732.3	1666.0	1870.1	1948.1	2238.2
45°	3901.8	3660.4	3310.5	2885.5	2361.5	2039.7	2015.4	1896.3	2157.8	2320.4	2600.6
47.5°	4197.0	3973.3	3666.9	3218.1	2659.9	2526.3	2480.1	2276.5	2513.7	2724.8	3160.6
50°	4476.3	4246.1	3924.3	3581.9	3200.3	3046.7	2948.1	2609.0	2957.0	3300.7	3878.5
52.5°	4876.1	4670.2	4223.2	3948.5	3780.9	3403.0	3329.7	3143.3	3475.4	3939.2	4663.2
55°	5303.5	5022.8	4617.9	4465.6	4397.9	3914.0	3854.2	3735.6	4165.7	4592.6	5425.9
57.5°	5492.2	5199.3	4976.1	4885.0	4879.4	4656.6	4588.0	4505.3	4871.5	5153.1	6143.7
60°	5642.1	5327.8	5238.6	5289.5	5474.4	5327.8	5238.6	5165.7	5446.0	5707.0	6729.4
62.5°	5614.6	5299.3	5345.1	5500.1	5972.3	6015.3	5946.6	5770.1	6015.3	6161.0	7065.3
65°	5169.9	4878.5	5145.2	5513.2	6435.2	6778.5	6774.7	6312.8	6397.8	6397.8	7029.8
67.5°	4390.9	4089.1	4525.8	5397.8	6755.1	7383.3	7384.3	6888.2	6432.9	6374.0	6480.5
70°	3278.8	3005.5	3496.4	4701.0	6424.9	7676.2	7633.7	7352.5	6336.6	5822.4	5413.3
72.5°	1958.4	1781.8	2233.5	3422.2	5480.5	7137.7	7250.7	6817.7	5800.9	4842.0	3869.6
75°	889.3	812.7	1049.5	1965.9	3912.6	5953.7	6076.5	5753.7	4607.6	3482.4	2236.3
77.5°	380.7	360.1	458.2	872.0	2157.4	4071.4	4323.1	4112.0	3121.8	2023.8	989.2
80°	244.7	231.7	281.6	419.4	1001.8	2199.9	2416.6	2337.6	1590.3	787.0	348.4
82.5°	146.2	142.0	188.2	263.4	546.5	968.2	1091.1	1120.0	660.4	353.1	199.4
85°	79.9	80.8	103.2	159.7	327.9	376.9	403.5	439.0	311.1	204.6	96.7
87.5°	26.6	30.8	41.6	64.9	116.8	106.5	107.0	124.2	131.2	85.0	30.8
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: P367434
 CATALOG NUMBER: MSA-SA2C-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2
2.5°	467.1	458.7	437.2	438.6	446.5	448.4	450.7	437.2	434.4	460.1	462.4
5°	596.9	569.3	556.7	552.5	540.4	536.2	558.6	568.9	579.2	599.2	609.0
7.5°	701.1	670.2	647.3	626.3	608.6	598.3	636.1	665.1	682.8	723.9	742.6
10°	748.7	722.1	713.7	696.9	710.4	741.2	748.2	749.2	788.4	787.5	795.4
12.5°	843.5	826.2	798.7	804.7	840.2	872.0	863.1	876.7	890.7	924.3	908.9
15°	929.9	925.3	899.6	903.8	910.8	950.5	955.6	969.2	990.6	1017.3	999.0
17.5°	1036.4	1034.5	972.0	966.4	982.7	1021.5	1009.3	985.5	1056.5	1085.0	1077.5
20°	1108.8	1094.8	1014.5	990.6	1032.2	1037.3	1023.3	985.5	1047.2	1109.3	1126.1
22.5°	1169.1	1152.7	1070.0	1023.3	1014.9	1017.3	1017.3	1010.3	1040.6	1091.5	1091.1
25°	1217.6	1233.0	1128.0	1083.1	1038.3	982.2	975.2	981.3	998.6	1096.7	1093.4
27.5°	1339.5	1297.0	1147.6	1113.9	1021.9	933.7	952.8	962.1	967.8	1075.2	1092.9
30°	1418.9	1432.0	1217.6	1132.2	998.1	879.5	886.0	913.1	945.8	1072.8	1078.0
32.5°	1525.9	1497.9	1326.9	1101.8	934.6	846.8	834.6	871.1	919.6	1035.0	1049.0
35°	1625.4	1658.5	1373.2	1096.2	890.2	797.7	810.8	823.4	873.9	993.0	1009.3
37.5°	1858.9	1783.2	1503.0	1069.1	853.3	773.0	759.0	778.1	821.1	913.1	950.9
40°	2036.4	2041.1	1531.0	1035.0	782.8	737.5	707.6	726.7	745.0	818.3	834.6
42.5°	2369.4	2267.6	1599.7	960.3	738.4	684.2	667.4	675.8	678.6	709.5	736.6
45°	2793.0	2554.4	1626.8	859.9	680.0	662.3	628.2	624.0	608.6	612.8	636.6
47.5°	3379.2	3001.8	1607.2	752.9	628.2	633.8	584.8	565.6	544.1	549.3	571.7
50°	4137.2	3573.5	1605.8	662.3	592.7	596.4	556.3	521.7	500.2	511.0	530.6
52.5°	4987.8	4147.1	1612.3	600.2	553.9	552.1	537.6	495.6	478.3	489.5	511.9
55°	5801.4	4640.3	1660.9	560.9	513.8	517.0	522.6	487.1	468.0	478.3	501.6
57.5°	6509.5	5029.8	1642.7	519.4	476.4	491.4	506.3	475.5	461.0	475.9	499.3
60°	7004.5	5210.6	1498.8	479.7	448.8	469.4	498.4	474.1	472.2	504.4	532.5
62.5°	7185.3	5143.8	1218.6	448.4	432.5	466.6	516.6	504.9	506.8	546.5	585.2
65°	6921.4	4792.5	908.9	428.3	419.9	480.1	558.6	523.1	497.4	530.1	565.6
67.5°	6170.8	4168.1	664.2	411.0	405.4	501.6	597.4	521.2	473.6	506.8	535.7
70°	4992.4	3290.0	514.2	389.1	386.3	487.1	601.1	507.2	447.9	469.4	485.7
72.5°	3420.8	2252.6	426.0	368.0	353.1	431.6	570.8	475.9	417.1	429.7	443.2
75°	1911.7	1264.3	358.2	341.9	309.2	384.4	535.3	457.3	394.2	397.9	416.6
77.5°	858.0	546.9	304.1	307.3	269.5	340.0	489.0	427.4	359.2	350.8	369.4
80°	324.6	266.7	246.6	259.7	226.5	294.7	440.9	400.3	322.3	311.5	322.3
82.5°	188.2	161.6	183.1	199.9	179.8	270.9	420.8	375.5	284.0	256.9	266.2
85°	87.3	83.6	109.8	129.8	125.6	211.1	360.1	282.6	202.2	170.9	189.2
87.5°	22.9	25.7	38.8	45.8	46.7	72.4	138.7	105.1	78.9	59.8	57.4
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)