

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: P367298

Luminaire Tested: **MSA-SA2B-730-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-730-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9059 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

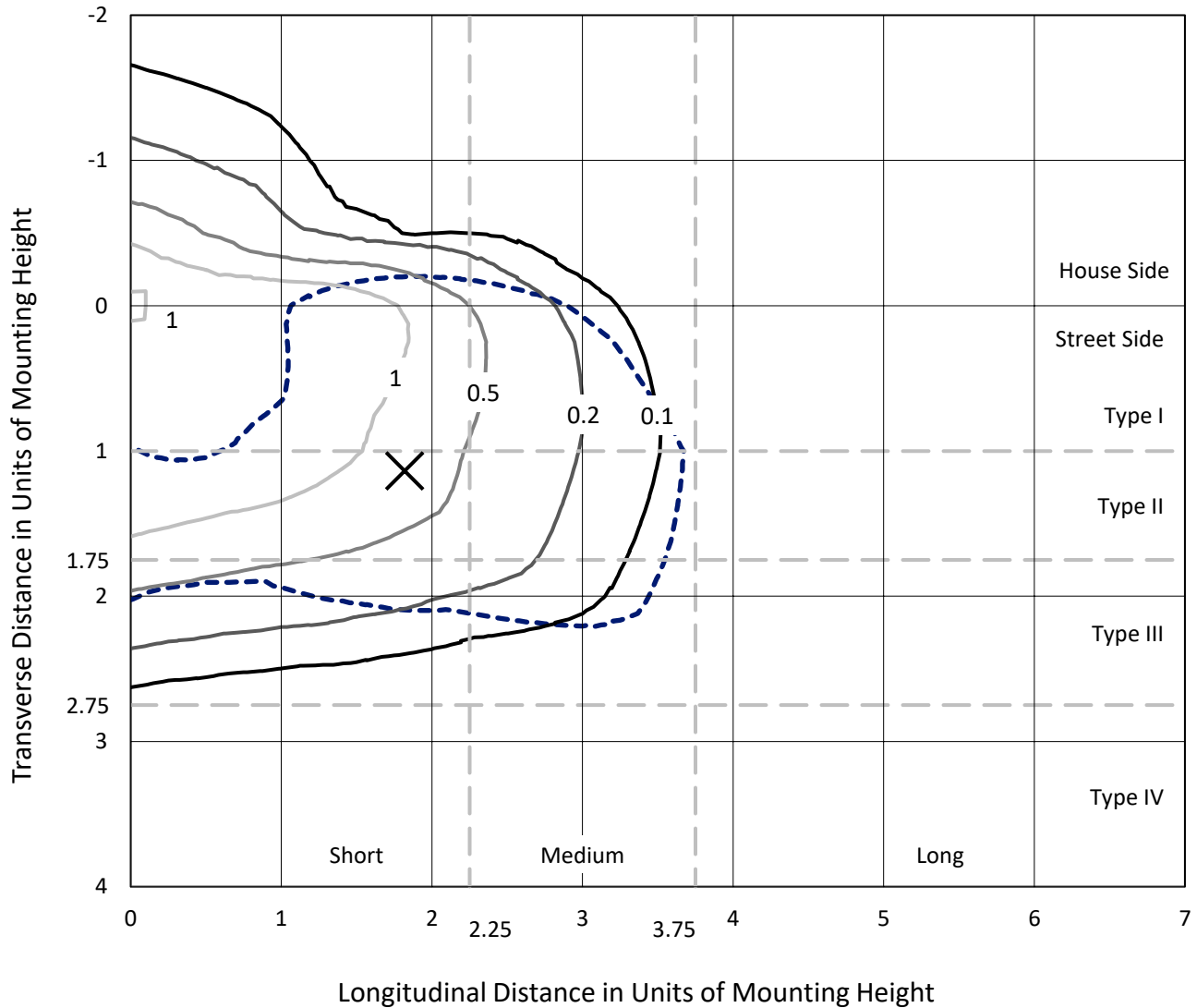
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367298
 CATALOG NUMBER: MSA-SA2B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

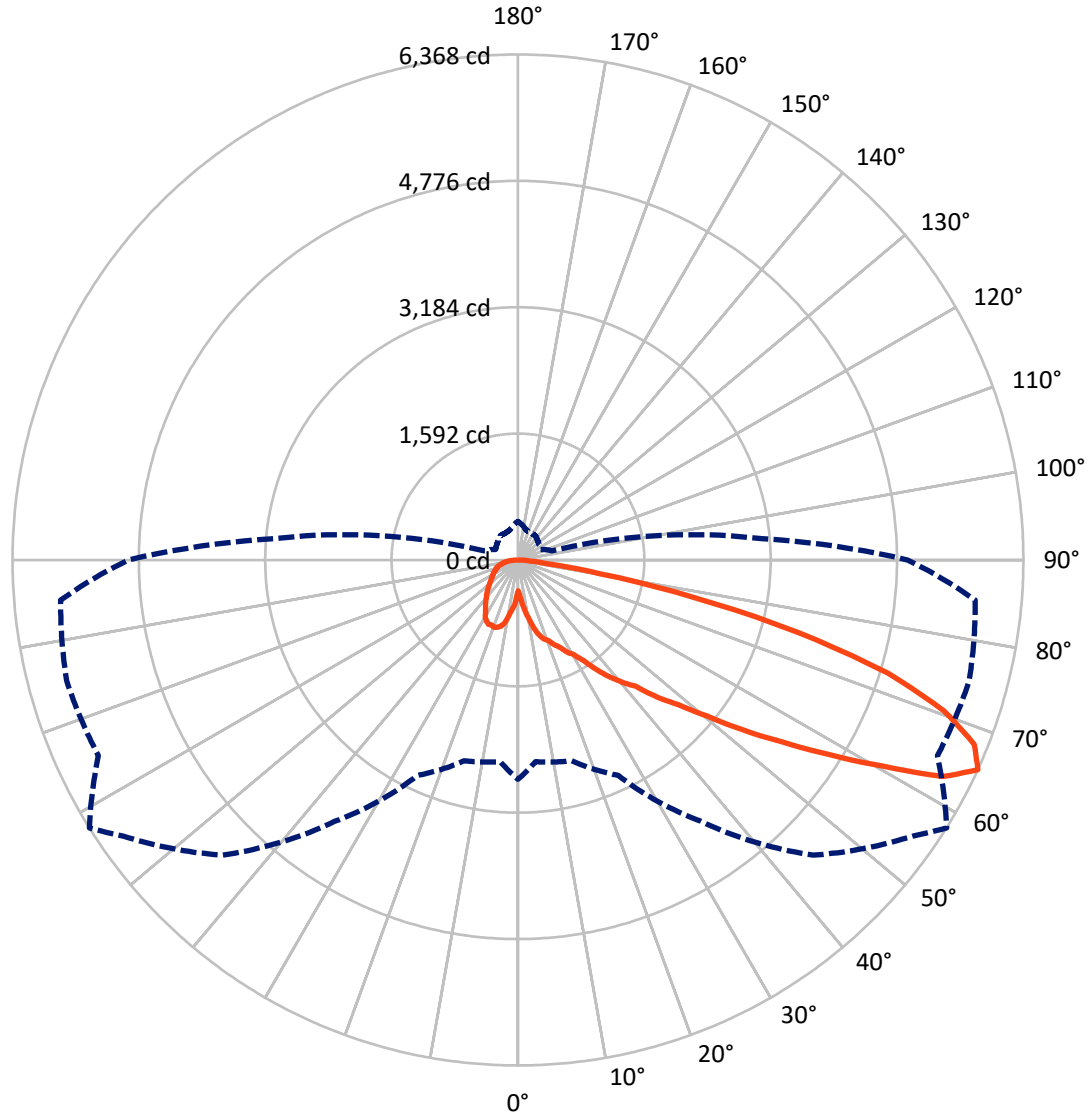
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P367298
CATALOG NUMBER: MSA-SA2B-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P367298
 CATALOG NUMBER: MSA-SA2B-730-U-T3

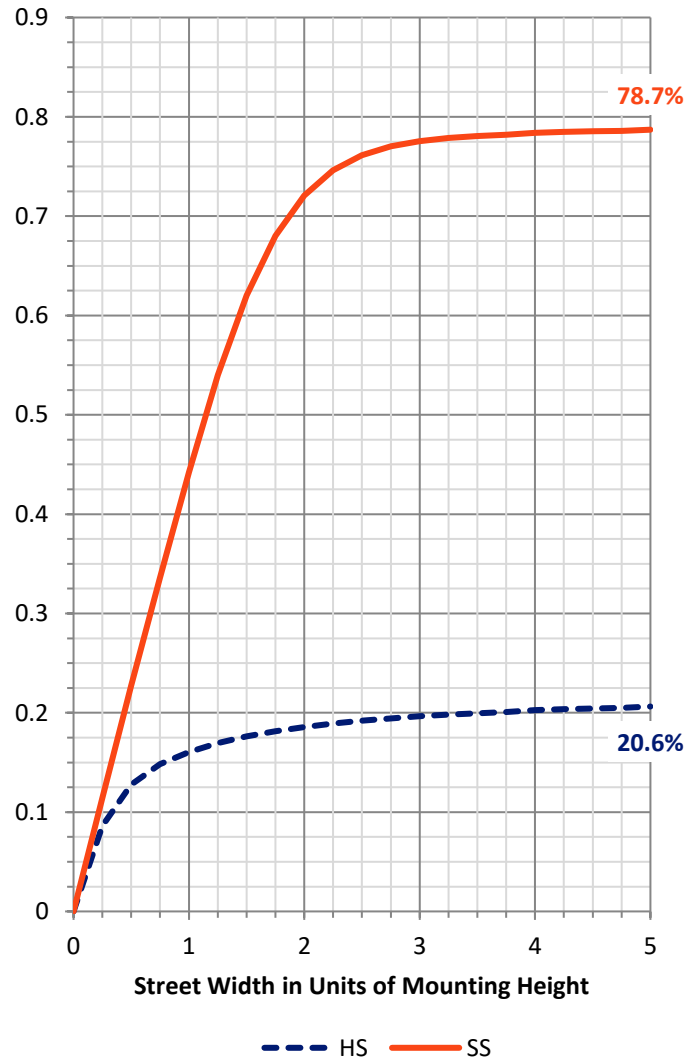
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.1	0.0	1908.1
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	7150.9	0.0	7150.9
	% Fixture	78.9	0.0	78.9
Total	Lumens	9059.0	0.0	9059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	0.7
10°-20°	258.5	2.9
20°-30°	496.1	5.5
30°-40°	819.0	9.0
40°-50°	1361.3	15.0
50°-60°	2248.2	24.8
60°-70°	2522.0	27.8
70°-80°	1146.7	12.7
80°-90°	147.9	1.6
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°	9059.0	100.0
0°-180°	9059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P367298

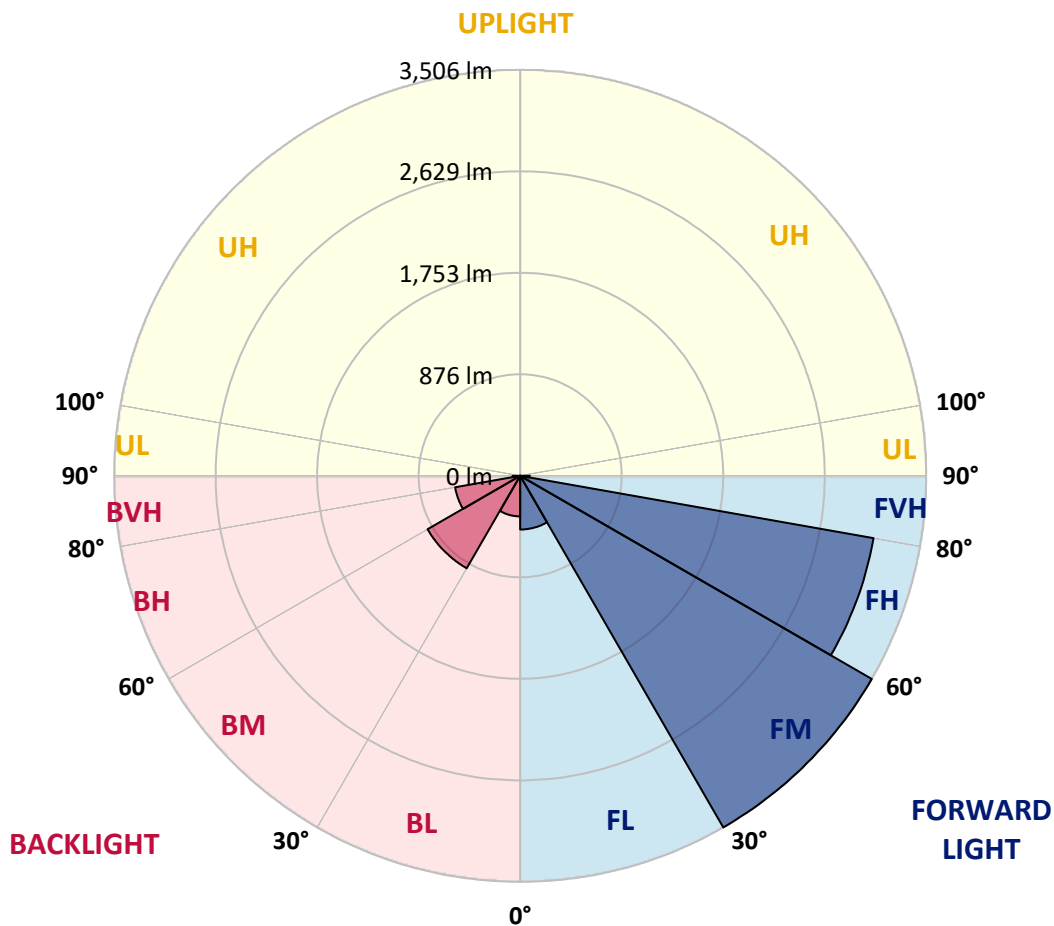
CATALOG NUMBER: MSA-SA2B-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.6	5.1			
FM (30°-60°)	3505.7	38.7			
FH (60°-80°)	3098.4	34.2			G2/5000
FVH (80°-90°)	83.3	0.9			G1/100
BL (0°-30°)	350.3	3.9	B1/500		
BM (30°-60°)	922.8	10.2	B1/1000		
BH (60°-80°)	570.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	64.6	0.7			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 III Short





REPORT NUMBER: P367298

CATALOG NUMBER: MSA-SA2B-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0
2.5°	464.4	450.4	427.1	432.7	446.3	453.8	449.3	443.3	435.4	433.8	468.6
5°	601.3	574.6	563.6	559.1	542.5	532.7	549.7	547.4	556.5	573.1	607.0
7.5°	701.3	682.5	664.3	662.5	630.4	619.1	641.7	653.8	670.0	670.4	716.4
10°	754.9	738.7	738.3	721.3	718.7	740.2	740.6	749.6	751.5	770.7	761.7
12.5°	813.0	811.9	832.6	832.2	856.4	891.8	874.1	874.1	879.4	856.0	884.7
15°	951.4	963.5	924.7	931.1	931.1	965.8	964.6	971.4	987.7	981.6	968.8
17.5°	1095.6	1103.1	1060.1	1020.1	1023.1	1015.6	1042.7	1045.4	1029.9	1100.1	1084.6
20°	1188.4	1217.8	1127.2	1077.1	1086.9	1095.6	1096.7	1080.5	1072.5	1180.4	1159.3
22.5°	1303.0	1278.1	1195.2	1139.7	1154.4	1142.7	1140.4	1152.9	1163.8	1204.6	1238.9
25°	1379.6	1377.7	1278.1	1217.4	1201.2	1197.8	1220.8	1215.9	1241.9	1315.9	1294.4
27.5°	1490.9	1525.6	1349.1	1364.2	1292.9	1217.8	1291.7	1314.0	1360.8	1348.7	1396.6
30°	1706.7	1680.7	1496.2	1492.1	1411.3	1348.3	1399.6	1380.8	1464.9	1462.2	1497.7
32.5°	1882.9	1901.0	1669.0	1625.6	1565.6	1489.8	1455.8	1508.3	1553.5	1627.9	1647.9
35°	2069.3	2065.1	1845.9	1758.4	1659.2	1627.9	1669.7	1691.6	1787.8	1856.1	1808.6
37.5°	2359.0	2326.2	2075.3	1909.7	1835.4	1824.0	1895.7	1864.0	1968.2	1984.4	2011.2
40°	2628.4	2529.5	2285.0	2095.3	1977.2	2019.5	2021.7	2025.9	2081.7	2125.8	2258.3
42.5°	2884.5	2815.1	2498.2	2355.6	2181.7	2140.6	2166.2	2174.9	2316.0	2406.1	2589.5
45°	3234.6	3048.6	2804.5	2658.2	2463.5	2411.1	2392.9	2467.6	2603.8	2809.1	2966.4
47.5°	3530.7	3362.9	3130.1	2937.3	2719.6	2869.4	2766.8	2724.9	2907.9	3162.2	3412.7
50°	3776.3	3591.5	3363.2	3252.0	3217.2	3350.8	3084.5	3089.4	3256.9	3615.6	3902.7
52.5°	3966.5	3769.2	3567.0	3510.4	3704.3	3781.2	3588.8	3559.8	3682.0	4106.1	4450.9
55°	4144.2	3934.8	3778.6	3894.0	4220.8	4229.4	4215.8	4054.8	4201.9	4631.6	5018.3
57.5°	4189.8	3964.2	3860.5	4026.1	4467.9	4811.5	4946.6	4630.5	4780.2	5109.6	5504.2
60°	3954.8	3761.6	3720.1	3945.0	4601.4	5103.9	5456.6	5267.6	5211.4	5493.2	5844.5
62.5°	3473.4	3249.3	3282.9	3595.3	4460.7	5219.7	5859.6	6007.1	5666.8	5798.4	5993.1
65°	2764.5	2550.6	2618.5	2994.3	4018.9	5258.2	6065.5	6368.1	5831.3	5884.8	5782.6
67.5°	1949.7	1755.4	1841.0	2326.9	3343.3	4765.5	6101.0	6199.8	5656.2	5638.5	5207.7
70°	1104.6	982.8	1075.6	1480.7	2359.7	3796.3	5823.0	5692.8	5342.3	5091.1	4357.3
72.5°	506.7	464.8	509.3	753.8	1358.5	2526.1	4753.8	4871.9	4603.3	4289.0	3315.0
75°	269.4	254.6	273.5	376.5	635.7	1374.3	3377.6	3643.2	3500.2	3253.1	2162.4
77.5°	200.3	189.0	198.1	244.1	339.5	537.6	1919.1	2254.1	2308.4	2081.0	1200.8
80°	153.5	144.5	153.5	184.5	235.0	255.4	820.5	1050.7	1196.7	966.9	477.2
82.5°	113.9	107.9	121.9	138.5	165.2	159.6	291.2	362.5	467.4	319.5	186.0
85°	90.5	83.0	88.3	93.9	105.6	87.5	133.2	149.0	157.7	132.0	68.7
87.5°	35.5	32.8	64.1	50.6	43.0	26.4	40.0	45.3	46.4	44.5	20.0
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: P367298
 CATALOG NUMBER: MSA-SA2B-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0
2.5°	472.3	468.6	446.3	453.5	465.2	467.4	472.3	458.7	452.0	476.9	478.0
5°	610.0	589.7	579.1	580.2	572.7	561.0	578.7	590.4	594.9	613.4	620.2
7.5°	716.8	692.3	674.5	654.2	625.5	607.0	637.9	660.6	672.6	711.1	726.2
10°	764.3	744.7	740.9	715.3	714.5	714.1	712.6	704.7	730.7	727.0	737.5
12.5°	862.4	858.3	822.4	812.2	813.4	812.2	780.5	779.0	779.4	814.1	801.7
15°	953.7	954.5	921.6	884.7	851.5	841.3	828.8	823.2	831.5	851.1	839.0
17.5°	1066.5	1070.3	976.3	917.9	874.1	873.0	843.2	808.1	858.6	870.7	857.5
20°	1139.3	1123.5	1008.0	909.9	897.5	863.5	826.6	778.3	822.0	851.5	859.8
22.5°	1208.4	1180.8	1037.5	923.9	864.3	823.9	788.1	756.8	770.7	803.6	798.3
25°	1255.1	1247.6	1078.2	957.5	863.2	773.4	725.1	705.1	712.3	763.2	758.3
27.5°	1366.8	1285.3	1071.0	966.2	826.9	704.3	680.2	658.7	651.5	706.6	721.7
30°	1441.5	1407.9	1118.9	952.6	781.3	647.8	612.3	607.8	610.0	672.6	676.8
32.5°	1568.3	1481.1	1197.4	900.5	714.9	605.9	565.1	567.0	577.2	622.9	632.3
35°	1700.3	1648.2	1208.0	863.2	661.0	561.4	544.8	531.6	537.2	577.2	579.1
37.5°	1945.5	1765.6	1272.9	805.4	621.3	544.4	512.7	501.0	504.0	526.7	542.9
40°	2161.3	2001.3	1242.7	749.6	572.3	521.7	482.1	473.5	464.4	486.7	496.8
42.5°	2507.3	2169.6	1232.5	688.1	549.3	491.2	464.0	441.0	432.3	451.2	469.7
45°	2853.2	2348.0	1177.0	625.9	516.8	488.9	437.6	415.7	418.0	435.0	453.8
47.5°	3238.8	2587.6	1083.1	565.5	481.4	478.0	411.2	401.8	408.6	427.4	446.3
50°	3694.5	2841.9	1005.4	511.2	456.1	445.2	407.8	396.5	402.9	425.2	443.7
52.5°	4192.8	3120.7	948.8	461.0	427.4	419.1	412.3	401.4	408.9	428.2	447.4
55°	4688.2	3375.3	910.3	426.7	402.9	408.2	421.8	413.9	417.6	432.0	451.2
57.5°	5055.6	3509.6	833.0	390.1	382.9	401.8	422.9	409.7	412.0	432.0	452.7
60°	5269.2	3535.3	705.8	360.3	367.1	389.0	411.2	394.2	392.7	425.5	451.6
62.5°	5245.8	3386.3	559.8	333.1	349.0	369.7	393.5	377.3	381.4	426.3	453.8
65°	4910.8	3081.8	445.2	310.1	327.1	348.6	378.8	372.4	392.3	456.5	486.3
67.5°	4322.2	2637.0	357.6	288.6	306.7	334.2	389.0	405.9	414.6	487.4	518.0
70°	3502.8	2048.9	298.0	269.7	290.5	341.0	418.4	415.0	407.8	472.7	496.8
72.5°	2530.6	1404.5	262.2	251.3	270.5	320.7	419.1	401.0	392.0	431.6	448.9
75°	1583.3	837.9	229.0	227.9	239.9	287.5	400.3	384.0	359.5	379.1	401.8
77.5°	904.3	428.9	192.8	203.0	210.1	249.4	358.4	343.7	321.8	330.1	352.4
80°	345.2	207.5	162.6	180.3	178.4	211.3	303.7	300.3	275.4	278.0	291.6
82.5°	162.6	116.2	135.1	155.1	144.9	168.3	246.7	245.6	223.7	202.6	213.5
85°	60.4	61.9	98.8	118.1	100.7	108.7	178.4	173.5	152.4	128.6	142.2
87.5°	13.6	22.3	48.7	61.5	35.1	33.6	72.1	62.6	60.4	35.8	37.7
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)