

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: P367420

Luminaire Tested: **MSA-SA2C-730-U-SL3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-730-U-SL3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11024 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

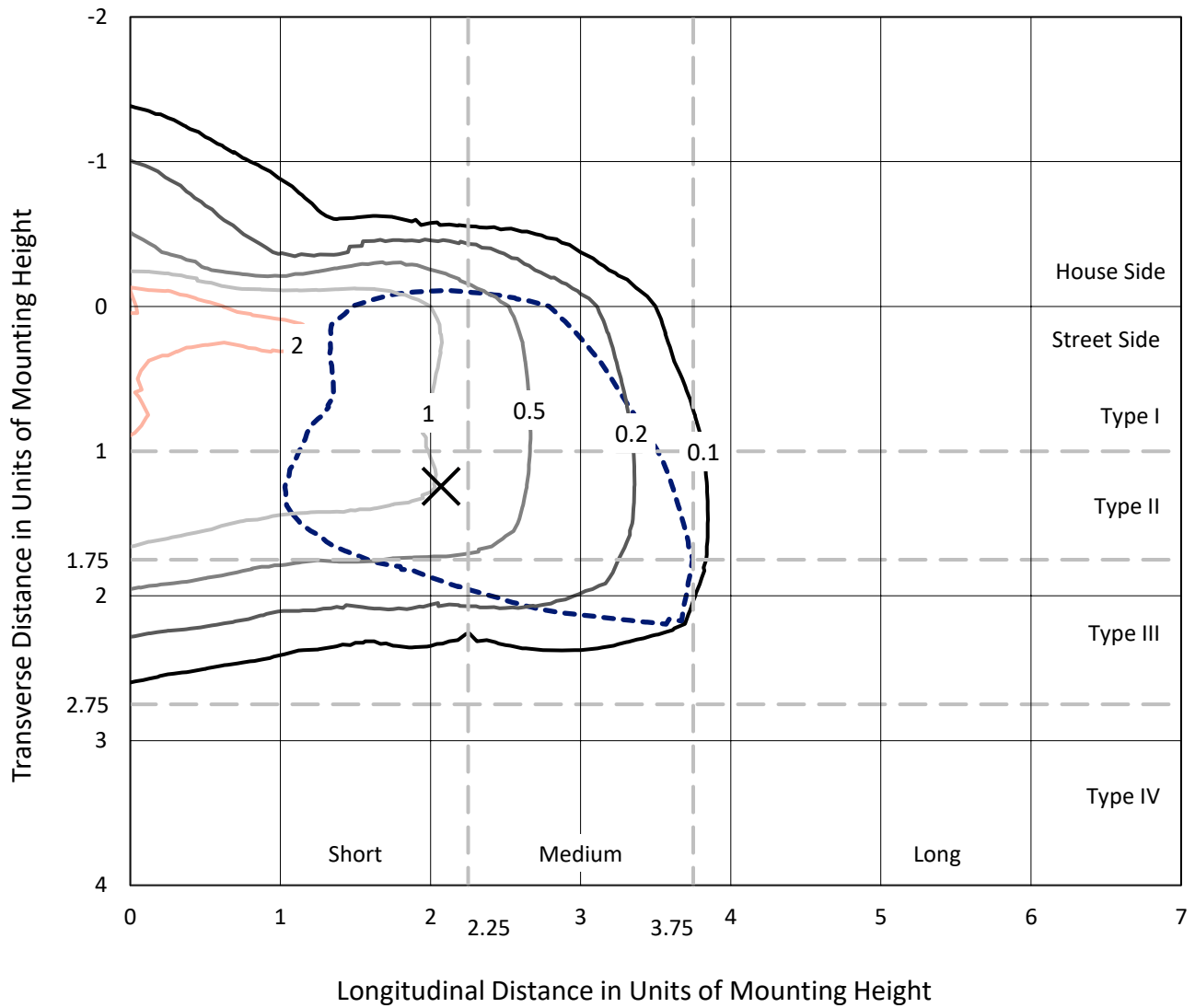
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

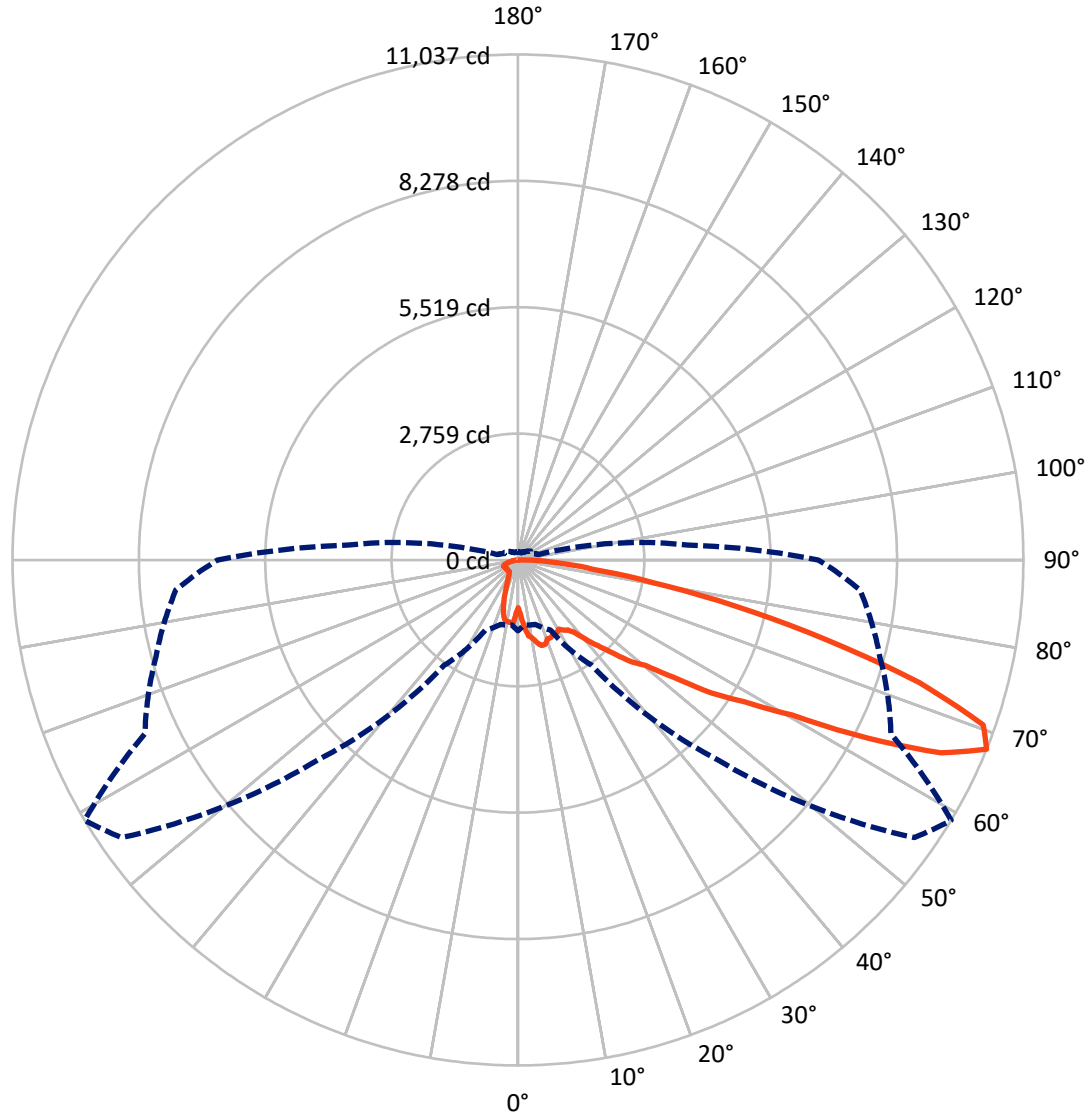
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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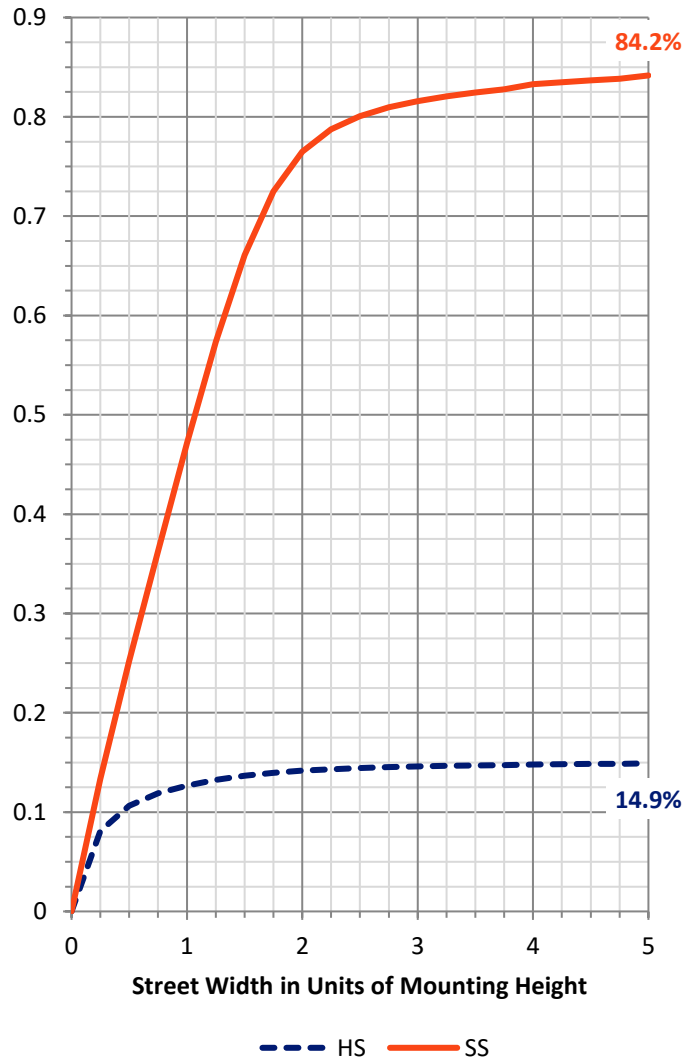
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1659.3	0.0	1659.3
	% Fixture	15.1	0.0	15.1
Street Side	Lumens	9364.7	0.0	9364.7
	% Fixture	84.9	0.0	84.9
Total	Lumens	11024.0	0.0	11024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	1.2
10°-20°	403.2	3.7
20°-30°	575.8	5.2
30°-40°	848.4	7.7
40°-50°	1433.4	13.0
50°-60°	2494.4	22.6
60°-70°	3178.7	28.8
70°-80°	1683.1	15.3
80°-90°	270.8	2.5
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°	11024.0	100.0
0°-180°	11024.0	100.0

Coefficient of Utilization



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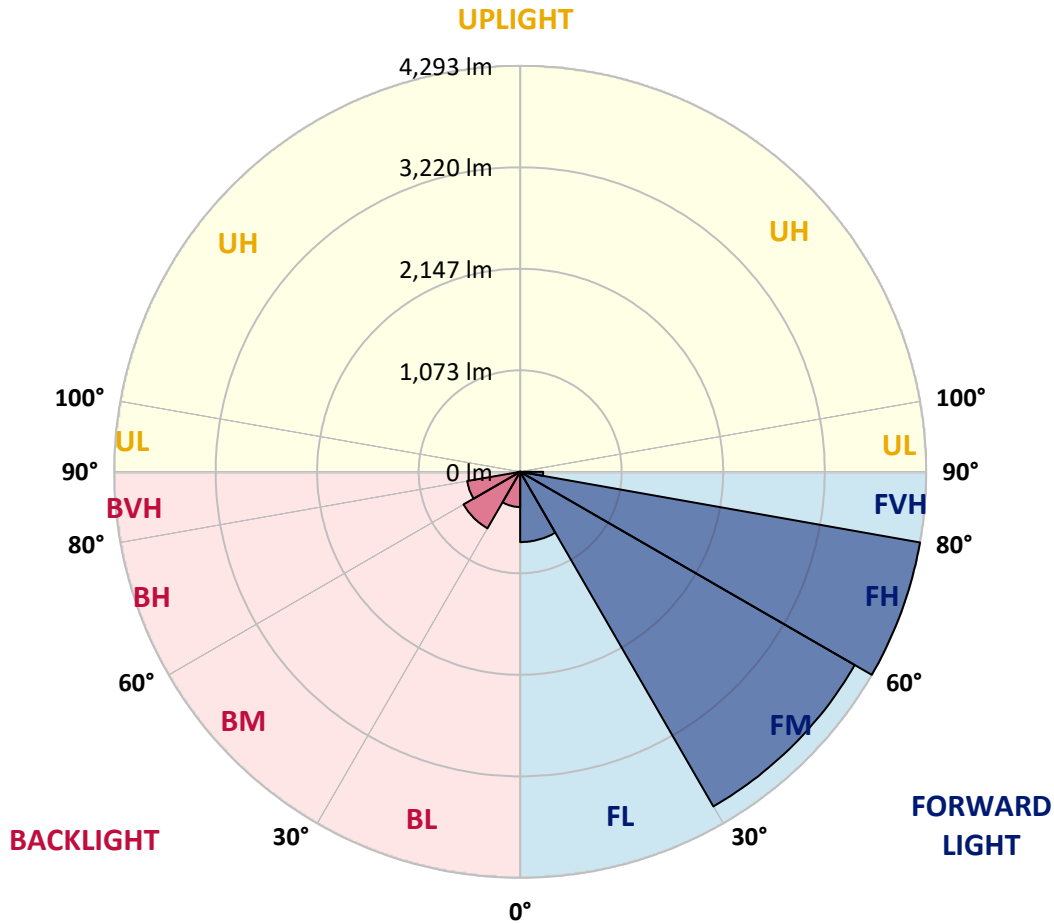
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.0	6.7			
FM (30°-60°)	4085.3	37.1			
FH (60°-80°)	4293.1	38.9			G2/5000
FVH (80°-90°)	243.2	2.2			G3/500
BL (0°-30°)	372.1	3.4	B1/500		
BM (30°-60°)	690.9	6.3	B1/1000		
BH (60°-80°)	568.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2
2.5°	1302.4	1241.7	1177.2	1195.5	1232.4	1249.2	1231.0	1213.2	1190.3	1163.2	1255.7
5°	1579.5	1489.3	1476.2	1475.7	1462.7	1410.3	1477.6	1472.9	1500.0	1528.1	1600.0
7.5°	1658.4	1624.8	1588.3	1605.6	1539.7	1536.9	1641.6	1671.5	1723.8	1706.5	1803.2
10°	1617.8	1579.9	1599.1	1592.1	1598.1	1667.3	1731.3	1733.2	1789.2	1844.3	1782.2
12.5°	1546.3	1549.1	1625.2	1622.4	1720.5	1849.0	1868.2	1853.2	1944.8	1907.4	1960.7
15°	1597.2	1631.3	1612.2	1628.5	1667.3	1830.8	1884.0	1938.2	2025.1	2058.8	2005.5
17.5°	1678.5	1696.7	1610.8	1601.9	1681.8	1759.3	1891.5	1937.8	1951.3	2191.0	2115.8
20°	1643.9	1680.8	1596.7	1488.8	1621.5	1724.3	1854.6	1840.6	1906.5	2201.2	2138.6
22.5°	1742.0	1680.8	1573.9	1497.2	1544.0	1638.3	1749.0	1841.1	1919.1	2141.0	2171.8
25°	1760.7	1731.8	1631.8	1555.6	1539.7	1573.4	1731.3	1791.5	1923.3	2223.2	2154.1
27.5°	1874.7	1831.3	1627.6	1629.9	1551.0	1491.6	1675.2	1801.8	1970.9	2172.3	2197.5
30°	2016.2	1983.1	1727.5	1736.9	1627.6	1518.3	1713.5	1751.8	1998.5	2251.7	2252.2
32.5°	2122.3	2180.7	1924.2	1797.2	1758.4	1676.6	1654.7	1827.1	1966.3	2395.6	2345.6
35°	2313.4	2358.7	2075.6	1973.7	1842.5	1750.4	1814.4	1876.6	2100.3	2584.8	2484.3
37.5°	2667.0	2614.7	2356.8	2196.6	2147.5	2014.8	2050.4	2006.9	2246.1	2797.3	2756.2
40°	2871.6	2826.3	2554.9	2466.1	2271.8	2288.6	2244.2	2276.0	2440.9	3023.4	3010.4
42.5°	3073.4	3012.7	2783.3	2721.7	2527.8	2445.6	2453.5	2556.3	2741.3	3388.8	3345.3
45°	3272.9	3117.3	3016.9	3033.2	2939.8	2771.2	2782.9	2879.6	3069.2	3806.4	3706.4
47.5°	3425.7	3297.2	3218.7	3198.6	3152.4	3378.0	3277.1	3316.3	3400.0	4178.2	4140.4
50°	3714.8	3564.9	3462.6	3433.6	3590.6	3904.5	3698.9	3614.4	3792.4	4659.0	4639.3
52.5°	4177.8	3990.9	3820.4	3818.5	4045.6	4249.3	4394.1	4248.3	4313.7	5151.3	5207.4
55°	4581.9	4365.6	4212.4	4296.9	4620.2	4744.9	5236.8	5122.8	5067.7	5648.4	5808.6
57.5°	4732.8	4480.0	4380.1	4504.8	4981.3	5622.2	6142.2	5842.3	5788.5	6210.8	6546.7
60°	4401.6	4134.3	4140.4	4375.4	5200.9	6266.4	7132.1	6877.5	6562.6	6911.1	7239.1
62.5°	3457.9	3216.4	3373.8	3731.2	5016.8	6892.4	8458.8	8566.3	7446.9	7491.8	7623.1
65°	2350.3	2183.0	2325.0	2674.9	4068.9	7233.9	9722.5	10153.2	8252.3	7872.1	7788.9
67.5°	1546.8	1428.6	1456.1	1688.8	2801.1	6166.9	10567.6	11037.0	8988.6	8184.1	7496.5
70°	1197.8	1102.5	1090.3	1212.3	1661.2	4284.3	10066.8	10780.6	9437.0	7891.7	6534.1
72.5°	939.9	867.5	874.1	991.3	1286.5	2376.9	7789.8	9167.5	8761.5	6806.0	5020.1
75°	733.0	673.6	706.8	840.9	1189.8	1477.1	5374.6	6957.8	6773.8	5039.7	2863.2
77.5°	532.1	493.8	541.0	716.2	1118.4	1267.4	3345.8	4854.2	4339.4	2587.6	982.4
80°	349.0	327.5	366.3	583.9	1014.2	1219.7	2067.6	2974.4	2144.2	726.9	371.9
82.5°	205.5	196.2	228.4	395.2	815.2	1143.1	1379.0	1652.8	877.3	307.4	197.6
85°	107.9	100.9	135.5	227.0	562.0	1043.6	1085.7	989.4	423.7	133.6	94.4
87.5°	36.0	35.0	57.5	87.8	212.6	554.0	579.3	470.0	174.7	38.8	20.6
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°	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2
2.5°	1268.3	1249.6	1142.2	1157.1	1171.2	1164.2	1160.0	1111.4	1106.7	1175.8	1170.2
5°	1598.1	1520.6	1429.0	1424.8	1364.6	1302.9	1315.0	1295.4	1301.0	1329.5	1332.3
7.5°	1772.4	1675.7	1588.3	1446.3	1325.8	1228.2	1243.6	1238.9	1226.3	1290.8	1308.0
10°	1769.1	1683.2	1584.6	1412.7	1331.4	1252.0	1156.7	1066.5	1039.9	1008.1	1010.9
12.5°	1885.9	1809.8	1594.9	1419.7	1309.4	1172.6	994.1	895.5	801.2	799.3	775.5
15°	1922.4	1866.3	1616.8	1379.5	1155.7	959.5	775.0	668.0	599.8	586.3	566.2
17.5°	2014.4	1926.6	1550.0	1249.6	977.3	750.3	582.5	507.8	502.2	511.5	501.3
20°	2020.5	1878.0	1429.5	1057.6	785.3	568.5	475.1	437.7	457.8	480.7	479.8
22.5°	2015.3	1816.8	1325.3	894.1	590.0	456.9	416.2	407.8	426.5	460.6	464.8
25°	1963.0	1796.7	1195.0	734.4	478.8	391.5	380.3	385.4	408.8	448.9	448.9
27.5°	2017.6	1714.9	1031.5	597.5	402.7	348.5	356.4	369.5	386.8	432.6	441.0
30°	1999.9	1742.0	899.7	481.2	355.0	318.6	336.4	349.4	369.1	416.7	420.9
32.5°	2047.5	1669.6	789.0	404.6	323.7	306.9	311.1	328.9	354.6	391.9	399.4
35°	2120.4	1696.2	662.0	363.9	308.3	293.4	301.3	315.3	341.0	377.5	383.5
37.5°	2353.1	1694.8	574.1	341.5	305.5	290.6	294.3	304.1	334.0	367.2	381.2
40°	2502.6	1792.0	494.3	336.4	302.3	289.2	285.9	296.6	320.5	359.7	369.5
42.5°	2783.3	1851.3	459.7	334.5	301.8	281.2	278.0	290.6	313.9	350.4	365.3
45°	3080.0	1935.9	432.1	333.5	300.4	279.8	270.0	285.9	305.5	340.6	357.8
47.5°	3428.9	2114.8	416.7	330.3	297.6	281.7	267.2	275.2	297.1	332.1	349.4
50°	3885.8	2351.7	420.0	325.6	301.8	282.2	263.0	266.7	286.8	320.9	338.7
52.5°	4441.3	2718.4	441.0	327.5	304.6	279.8	261.1	259.3	276.6	306.5	324.2
55°	5110.7	3238.8	504.1	336.4	304.6	279.4	258.3	249.9	263.0	287.3	304.6
57.5°	5918.4	3841.4	627.4	340.6	302.3	276.6	252.3	237.3	245.3	265.3	281.7
60°	6612.1	4327.7	754.5	343.4	306.9	270.0	240.1	221.4	226.6	242.0	256.5
62.5°	6965.8	4464.1	792.8	341.0	319.5	265.8	225.6	204.6	205.1	218.2	231.2
65°	7032.1	4282.4	639.1	338.7	335.9	265.3	215.4	190.1	186.9	196.2	207.4
67.5°	6559.3	3717.2	461.1	333.5	337.8	262.5	208.4	178.5	170.0	176.6	185.9
70°	5569.4	2993.5	387.3	323.3	315.3	248.5	196.2	166.3	155.1	159.8	166.8
72.5°	4152.1	2214.8	337.8	301.3	274.7	212.6	177.5	152.8	141.1	144.4	149.5
75°	2306.8	1181.4	282.6	262.1	224.2	171.9	151.4	135.5	125.2	126.6	132.2
77.5°	766.1	435.9	207.4	207.9	169.6	132.7	124.7	115.9	107.9	108.4	113.1
80°	347.1	241.1	148.6	149.5	118.2	96.2	95.8	93.0	87.8	86.4	89.7
82.5°	201.3	146.2	101.8	97.2	76.1	62.6	69.6	68.2	66.8	61.7	62.6
85°	99.0	78.5	53.3	50.5	42.0	31.3	37.4	38.8	37.4	31.8	31.3
87.5°	24.3	25.7	13.1	12.1	7.0	3.3	5.6	5.6	7.0	4.7	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)