

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: P597050

Luminaire Tested: **MSA-SA3C-835-U-RW**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15413 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

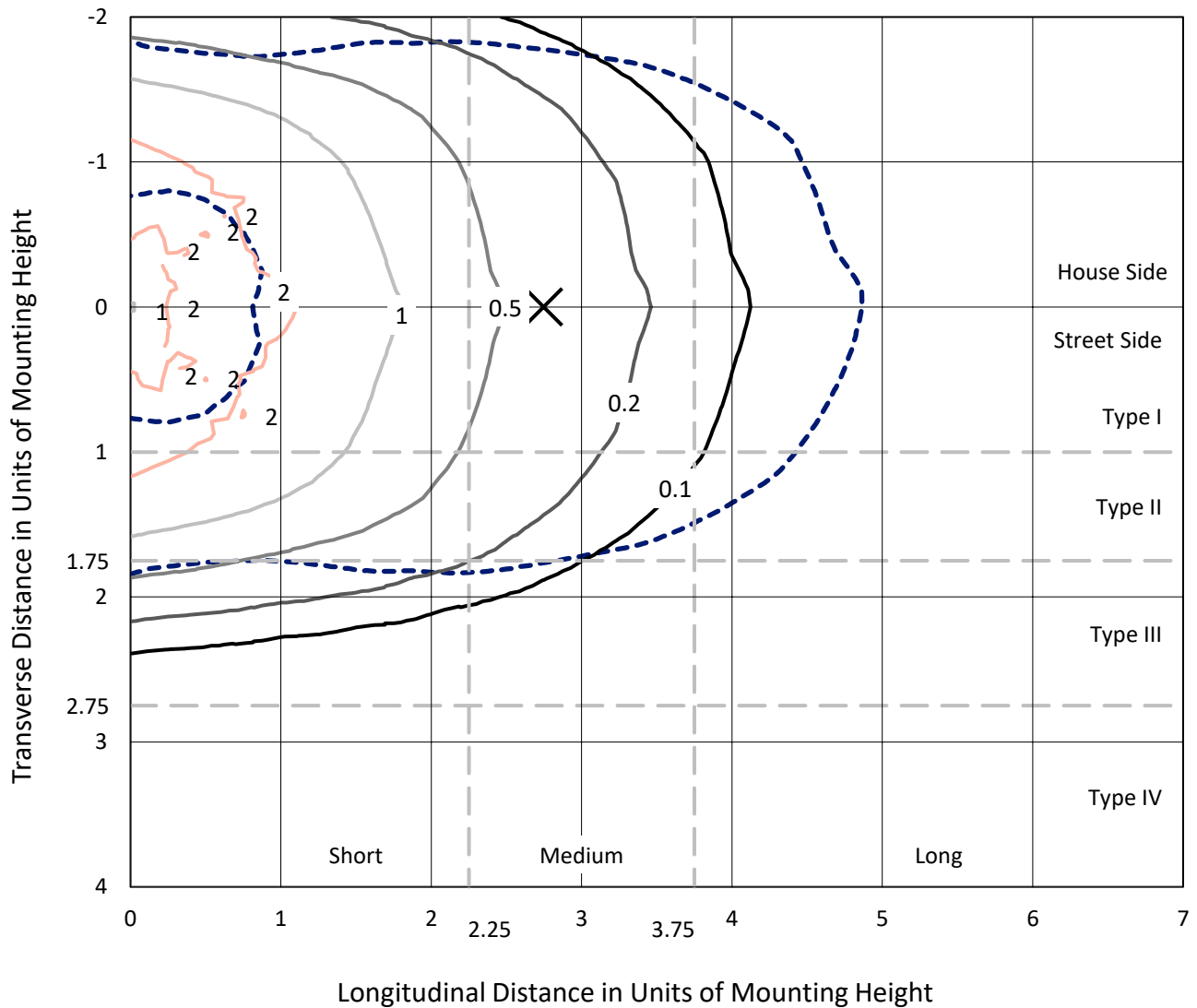
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

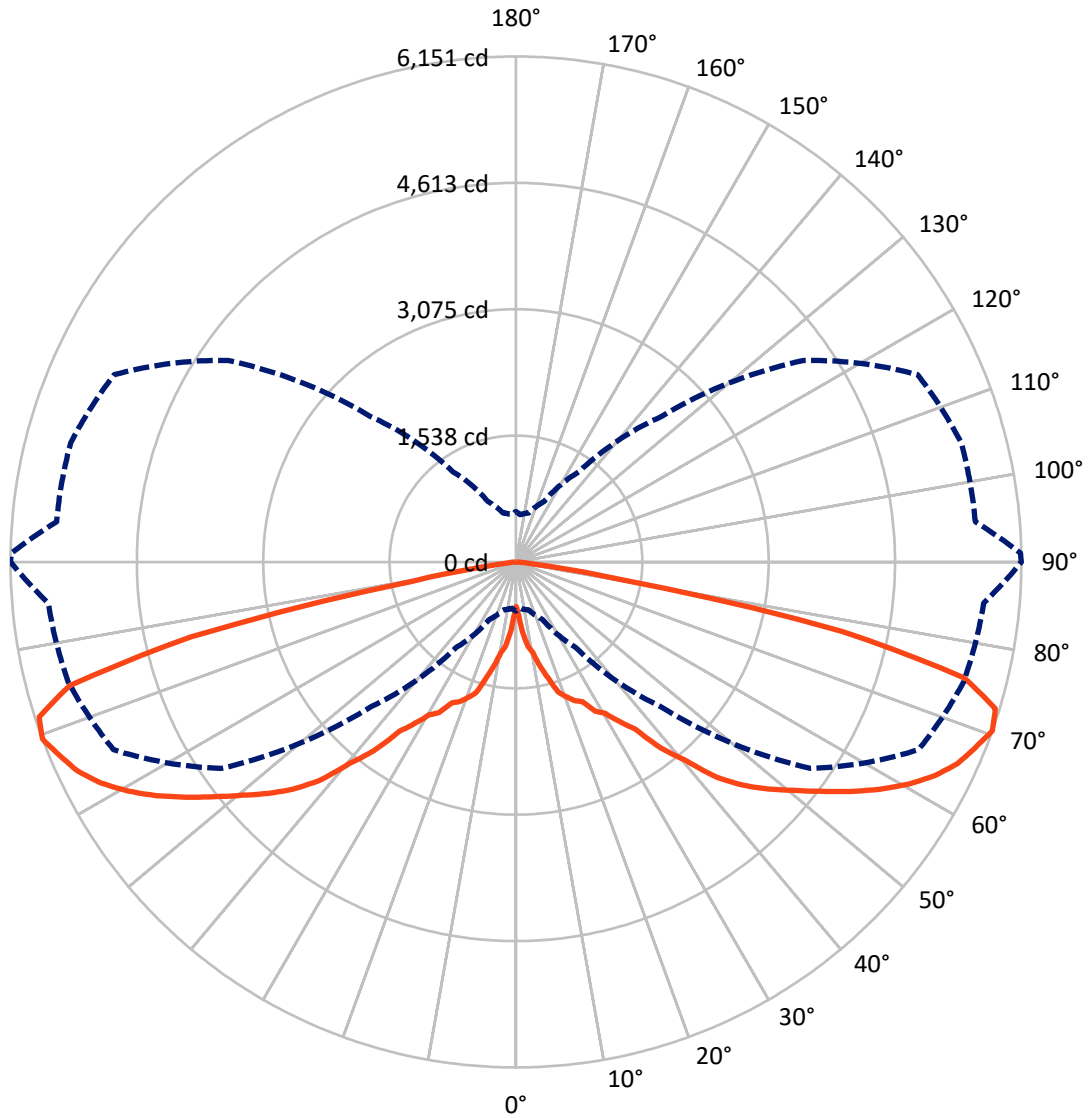
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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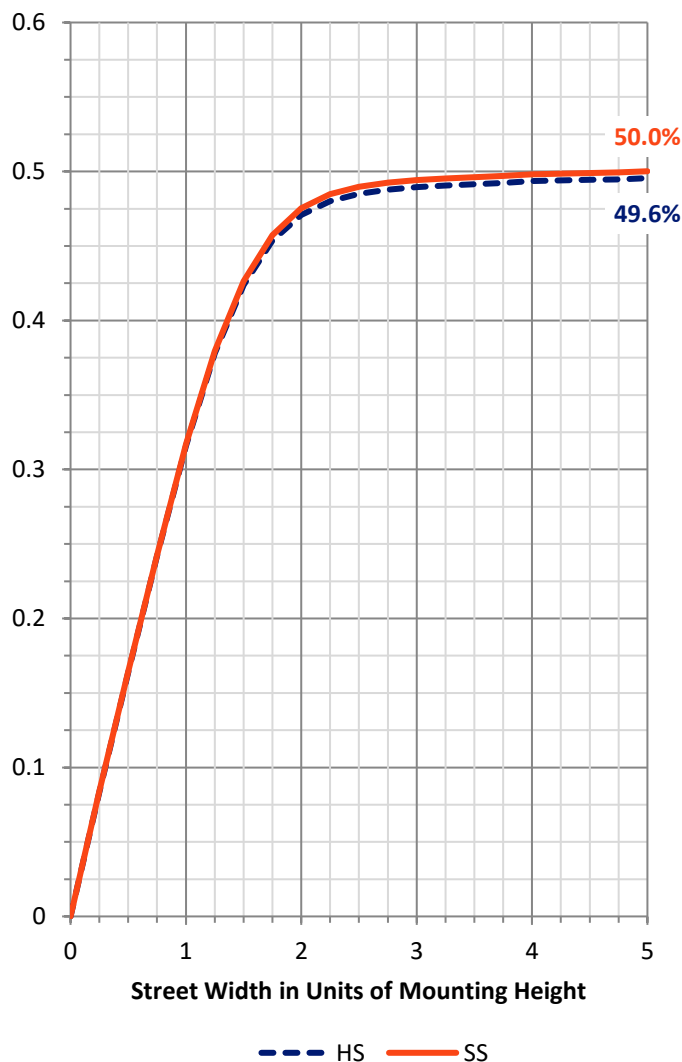
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7678.0	0.0	7678.0
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	7735.0	0.0	7735.0
	% Fixture	50.2	0.0	50.2
Total	Lumens	15413.0	0.0	15413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	0.5
10°-20°	374.0	2.4
20°-30°	808.7	5.2
30°-40°	1542.9	10.0
40°-50°	2802.9	18.2
50°-60°	3937.4	25.5
60°-70°	3759.4	24.4
70°-80°	1929.4	12.5
80°-90°	176.9	1.1
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°	15413.0	100.0
0°-180°	15413.0	100.0

Coefficient of Utilization



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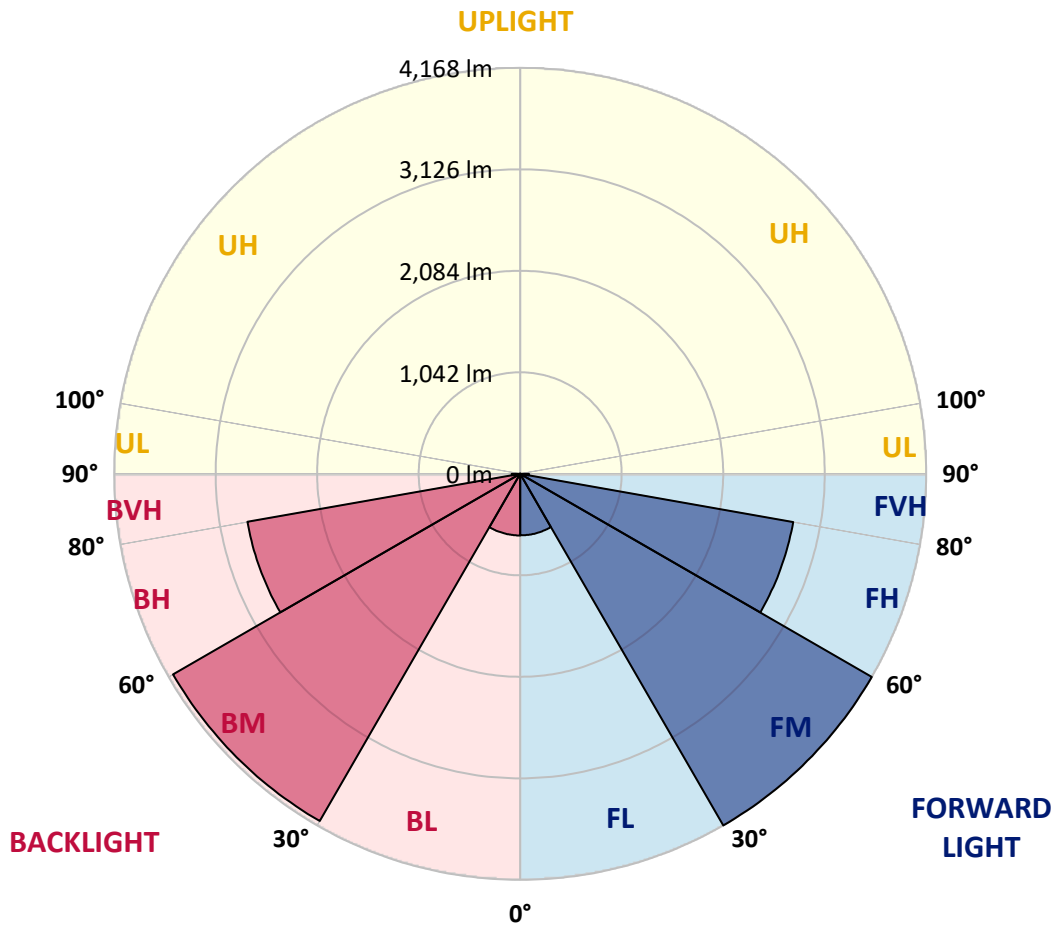
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.5	4.1			
FM (30°-60°)	4167.8	27.0			
FH (60°-80°)	2845.9	18.5			G2/5000
FVH (80°-90°)	89.8	0.6			G1/100
BL (0°-30°)	632.8	4.1	B2/1000		
BM (30°-60°)	4115.2	26.7	B3/5000		
BH (60°-80°)	2842.8	18.4	B4/5000		G4/5000
BVH (80°-90°)	87.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
2.5°	655.3	630.9	600.3	618.4	625.9	639.0	637.2	630.9	604.1	649.0	654.0
5°	820.2	781.5	767.1	764.6	768.3	755.8	796.5	784.6	806.4	847.0	856.4
7.5°	933.9	905.1	874.5	883.9	845.2	839.6	892.0	938.9	950.7	1025.1	1030.1
10°	987.6	959.5	967.6	962.0	957.6	993.8	1018.2	1052.6	1101.9	1108.8	1119.4
12.5°	1033.2	1044.4	1080.0	1078.8	1137.5	1201.9	1192.5	1228.1	1236.2	1322.4	1296.2
15°	1148.8	1171.9	1169.4	1191.2	1216.9	1322.4	1323.0	1383.6	1439.2	1473.0	1464.2
17.5°	1318.0	1326.2	1292.4	1293.7	1368.0	1411.1	1459.2	1448.6	1593.5	1659.7	1664.1
20°	1419.2	1439.9	1401.1	1349.9	1481.7	1541.1	1567.9	1506.1	1661.0	1750.3	1750.3
22.5°	1596.0	1542.9	1484.2	1449.9	1566.0	1629.1	1626.0	1608.5	1691.0	1849.0	1834.0
25°	1693.5	1663.5	1634.1	1642.9	1701.6	1734.1	1777.2	1736.6	1814.0	1931.5	1882.1
27.5°	1878.4	1822.8	1678.5	1793.4	1793.4	1769.1	1860.3	1879.6	1829.0	2020.2	2057.0
30°	2087.6	2068.3	1864.0	1985.8	1948.3	1879.6	2054.5	2042.0	1957.1	2152.0	2135.1
32.5°	2285.7	2349.4	2155.7	2088.9	2145.1	2171.3	2079.5	2117.0	2133.2	2321.3	2313.1
35°	2589.2	2643.0	2386.2	2369.4	2275.7	2251.3	2321.3	2333.8	2335.0	2533.0	2496.8
37.5°	3114.6	3037.1	2783.5	2664.2	2674.8	2645.5	2659.2	2560.5	2574.3	2861.6	2879.7
40°	3498.8	3411.3	3129.0	3043.4	2833.5	2959.0	2847.9	2837.9	2810.4	3182.7	3172.7
42.5°	3922.9	3803.0	3490.6	3376.3	3153.3	3102.1	3050.9	3166.4	3158.9	3503.8	3580.0
45°	4243.4	4001.0	3838.0	3766.7	3633.1	3507.5	3458.8	3510.6	3486.9	3743.0	3876.1
47.5°	4445.8	4235.2	4047.8	3897.9	3769.9	4077.8	3831.1	3761.7	3713.6	4000.4	4128.4
50°	4606.9	4363.9	4142.8	4092.8	4194.0	4466.4	4077.2	3924.2	3982.9	4194.0	4368.3
52.5°	4650.6	4393.3	4194.6	4162.8	4436.4	4485.7	4422.6	4165.3	4149.7	4426.4	4636.9
55°	4517.0	4270.2	4175.9	4350.2	4652.5	4611.3	4707.5	4543.2	4432.6	4663.8	4928.6
57.5°	4172.8	3927.9	3905.4	4156.5	4537.6	4888.6	4936.1	4806.2	4661.3	4906.1	5218.5
60°	3607.5	3383.8	3440.7	3718.0	4292.7	4792.4	5044.8	4926.1	4881.1	5124.8	5487.1
62.5°	2727.3	2553.0	2704.8	3091.5	3845.4	4668.1	5194.7	5176.0	5111.0	5357.1	5724.4
65°	1739.1	1647.2	1802.2	2195.1	3151.4	4442.0	5266.6	5291.6	5351.5	5536.4	5908.1
67.5°	1010.7	962.0	1056.3	1378.0	2244.4	3647.4	5132.9	5491.4	5522.7	5628.9	6028.7
70°	597.8	565.9	604.7	774.0	1270.6	2484.9	4378.3	5404.0	5640.1	5713.8	6150.5
72.5°	456.0	426.0	409.2	457.9	663.4	1283.7	2960.3	4580.7	5545.8	5657.6	6099.2
75°	394.2	365.4	345.4	349.8	394.8	609.7	1604.8	3276.4	4725.6	5151.6	5633.9
77.5°	338.6	313.0	298.6	297.3	303.0	334.8	670.9	1776.6	2959.7	3703.0	4061.6
80°	271.1	251.1	248.0	248.0	239.9	237.4	333.6	675.9	1126.3	1335.5	1280.6
82.5°	198.0	178.0	198.0	195.5	183.0	173.0	212.4	292.3	347.3	274.2	216.8
85°	133.7	115.6	130.6	133.1	121.2	90.0	127.4	146.2	149.9	93.7	77.5
87.5°	46.9	45.6	73.7	64.3	52.5	30.6	46.9	50.6	53.1	33.1	22.5
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
2.5°	655.9	648.4	610.9	616.5	630.9	637.8	644.7	616.5	602.8	646.5	642.2
5°	858.9	831.4	800.8	796.5	798.3	771.5	787.1	780.2	783.3	811.4	817.1
7.5°	1028.8	995.7	955.1	923.3	868.3	824.6	861.4	880.2	885.8	935.8	954.5
10°	1120.7	1092.5	1080.7	1020.7	1002.6	997.0	988.2	958.2	991.3	979.5	988.8
12.5°	1300.6	1294.9	1233.1	1193.7	1197.5	1208.1	1153.1	1123.2	1080.0	1147.5	1123.2
15°	1453.6	1478.0	1416.1	1344.3	1308.7	1326.8	1284.9	1241.2	1202.5	1223.1	1196.9
17.5°	1649.1	1648.5	1527.9	1451.1	1448.0	1446.7	1384.9	1288.7	1334.9	1320.5	1321.8
20°	1752.8	1735.9	1586.0	1497.3	1572.9	1546.1	1490.5	1366.8	1420.5	1438.0	1449.2
22.5°	1839.6	1830.3	1648.5	1583.5	1632.3	1632.9	1577.3	1512.3	1505.4	1559.8	1530.4
25°	1900.2	1937.7	1766.6	1750.9	1772.2	1750.9	1696.6	1654.1	1626.6	1707.8	1626.6
27.5°	2043.9	1990.8	1784.7	1873.4	1886.5	1779.7	1847.8	1797.8	1721.6	1822.2	1855.3
30°	2146.4	2177.6	1912.1	2045.8	2030.2	1931.5	1959.6	1957.7	1866.5	2062.6	2039.5
32.5°	2322.5	2285.0	2120.1	2109.5	2147.0	2142.6	2095.1	2118.2	2140.7	2283.2	2317.5
35°	2503.0	2543.0	2253.2	2325.0	2314.4	2246.9	2371.2	2356.9	2423.7	2716.1	2619.2
37.5°	2910.3	2719.8	2551.8	2542.4	2613.6	2624.2	2584.2	2647.3	2791.6	3016.5	3120.2
40°	3177.1	3090.2	2804.8	2816.0	2717.3	2887.2	2774.8	2977.8	3087.7	3466.9	3430.0
42.5°	3580.6	3368.8	3094.6	3132.1	3112.1	3030.3	3178.3	3282.6	3440.0	3729.3	3916.0
45°	3881.1	3590.6	3460.7	3437.5	3435.0	3577.5	3558.7	3725.5	3781.7	3999.1	4154.0
47.5°	4109.1	3862.3	3669.9	3696.2	3619.9	4026.6	3809.8	3861.7	3975.4	4180.3	4360.8
50°	4379.5	4104.7	3886.1	3951.0	4136.5	4292.7	4096.6	4007.9	4063.5	4305.2	4506.3
52.5°	4630.0	4340.8	4100.3	4154.7	4457.6	4386.4	4365.2	4140.9	4134.0	4328.3	4556.9
55°	4923.0	4596.9	4384.5	4556.9	4664.4	4576.3	4542.6	4269.6	4100.9	4209.0	4424.5
57.5°	5210.3	4850.5	4639.4	4675.0	4811.2	4723.7	4470.7	4050.3	3839.8	3861.1	4079.1
60°	5479.6	5083.5	4909.3	4874.9	4983.6	4640.6	4197.8	3648.7	3369.5	3318.2	3506.9
62.5°	5710.1	5278.4	5113.5	5019.8	5123.5	4643.8	3772.4	3004.0	2697.3	2523.7	2670.5
65°	5893.1	5440.2	5322.8	5274.1	5311.5	4361.4	3109.6	2205.7	1829.6	1637.3	1722.8
67.5°	6014.9	5530.8	5477.1	5540.8	5041.1	3632.4	2303.8	1411.7	1063.8	958.9	1012.6
70°	6141.1	5610.8	5608.9	5392.1	4274.6	2504.3	1345.5	813.9	619.0	578.4	612.2
72.5°	6098.6	5515.8	5543.9	4715.6	2962.2	1338.7	710.2	460.4	419.2	433.5	463.5
75°	5647.6	5014.8	4879.3	3390.1	1680.4	622.2	409.2	348.6	346.1	367.9	397.3
77.5°	4096.6	3492.5	3134.0	1921.5	720.2	336.7	301.1	291.1	291.1	308.6	334.8
80°	1350.5	1168.8	1218.1	743.4	340.4	232.4	234.9	239.2	238.0	242.4	264.2
82.5°	221.8	229.9	355.4	303.6	205.5	158.7	177.4	186.2	188.6	168.7	191.8
85°	78.7	88.7	151.2	140.6	118.7	80.0	116.8	130.6	128.7	112.4	124.3
87.5°	24.4	31.2	55.0	42.5	35.6	21.9	43.7	51.2	64.3	26.2	23.7
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)