

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: P597052

Luminaire Tested: **MSA-SA3C-835-U-SL2**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14910 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

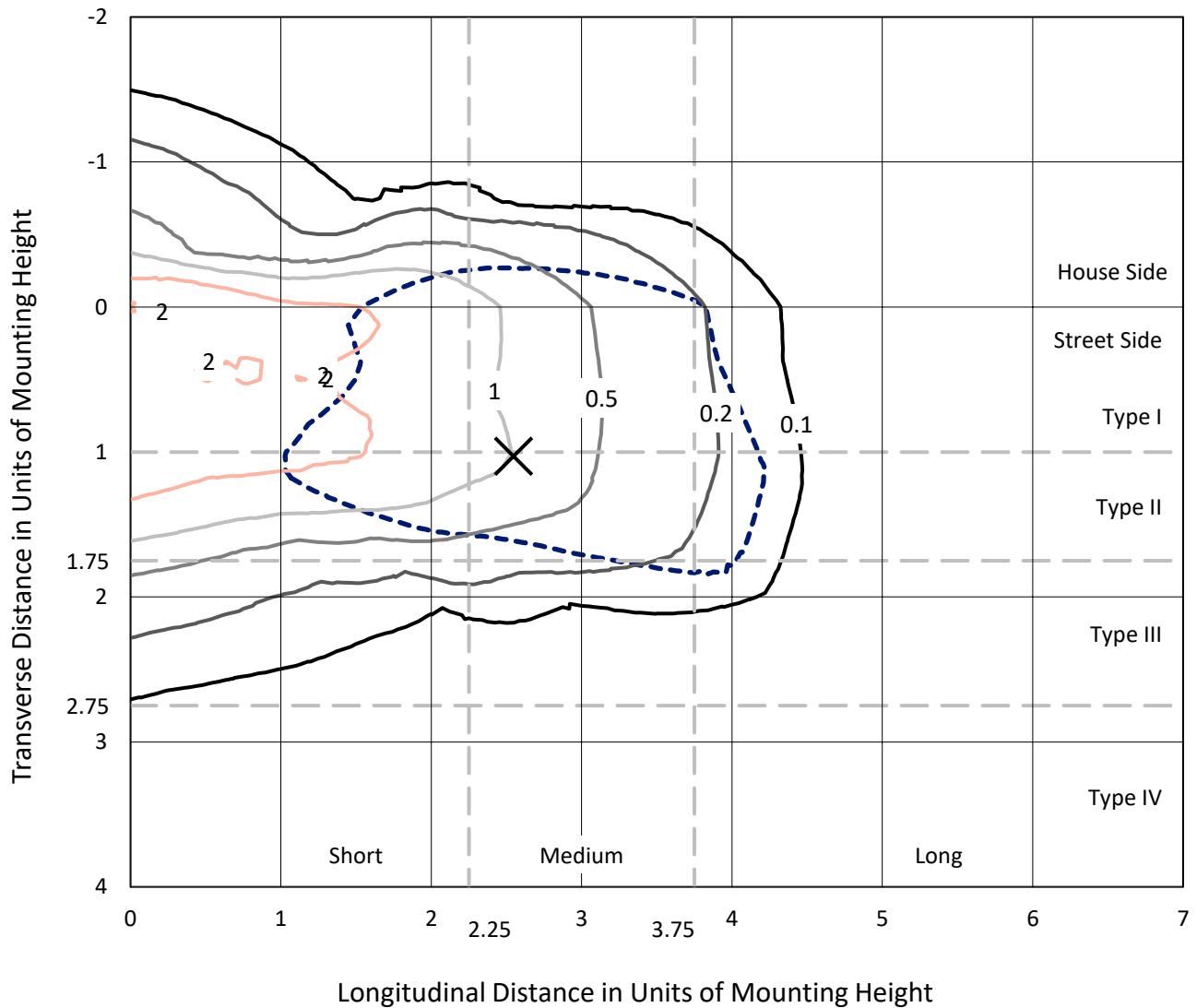
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

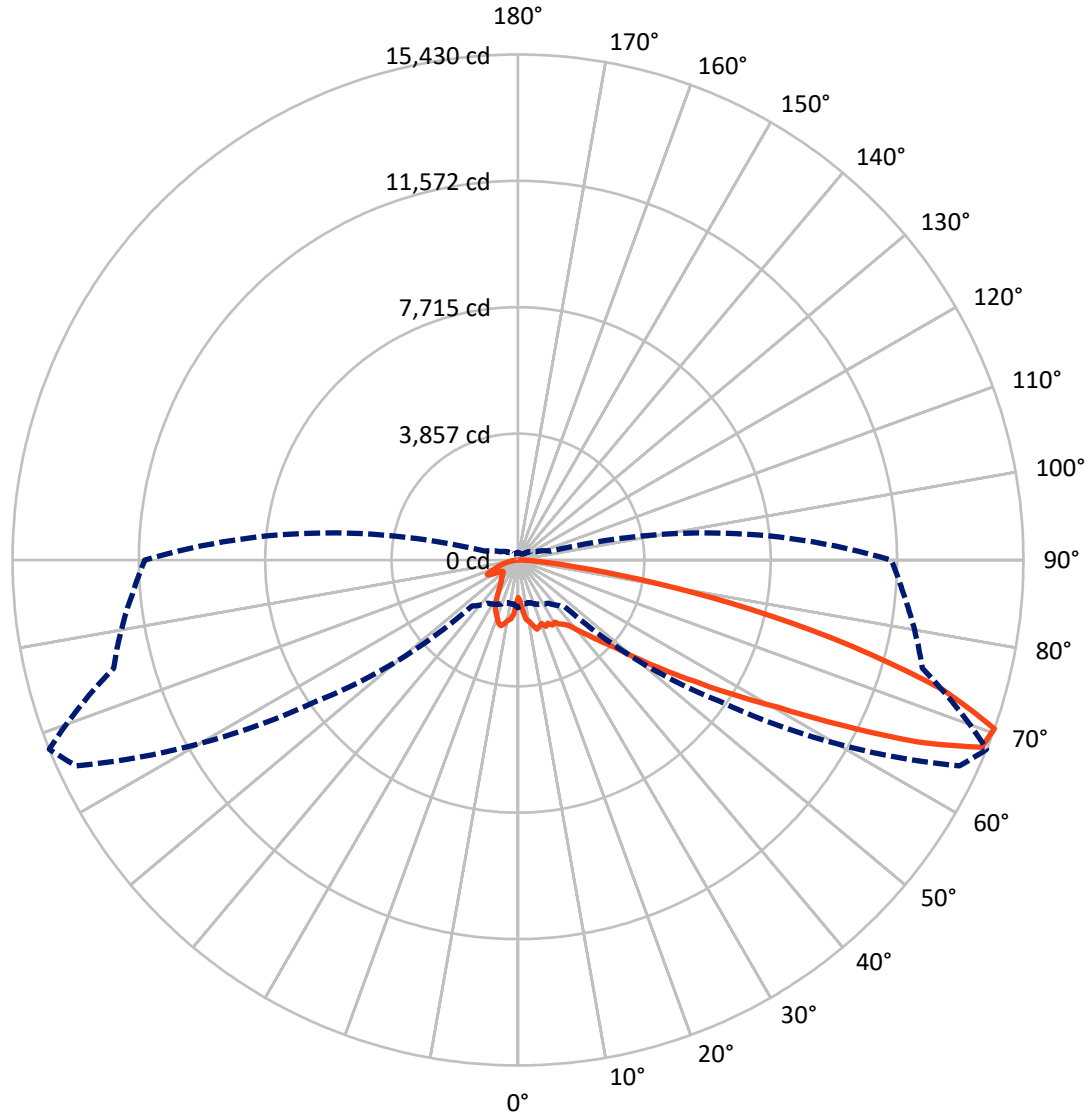
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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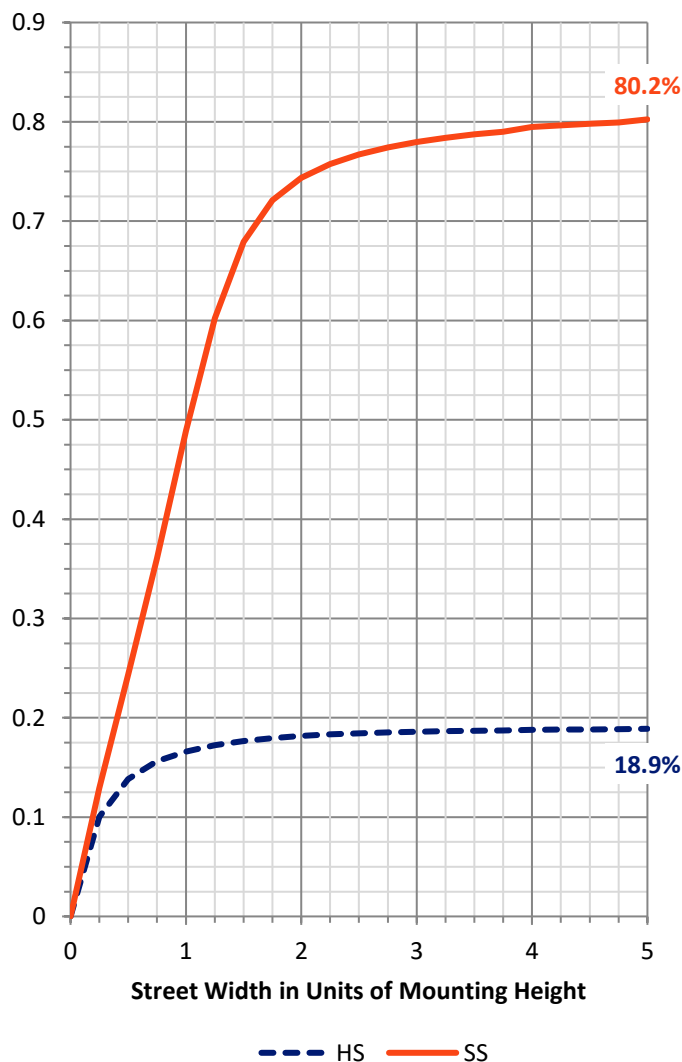
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.7	0.0	2846.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12063.3	0.0	12063.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	14910.0	0.0	14910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.0
10°-20°	497.6	3.3
20°-30°	757.0	5.1
30°-40°	1156.3	7.8
40°-50°	1988.1	13.3
50°-60°	3290.8	22.1
60°-70°	4057.1	27.2
70°-80°	2606.2	17.5
80°-90°	404.3	2.7
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°	14910.0	100.0
0°-180°	14910.0	100.0

Coefficient of Utilization



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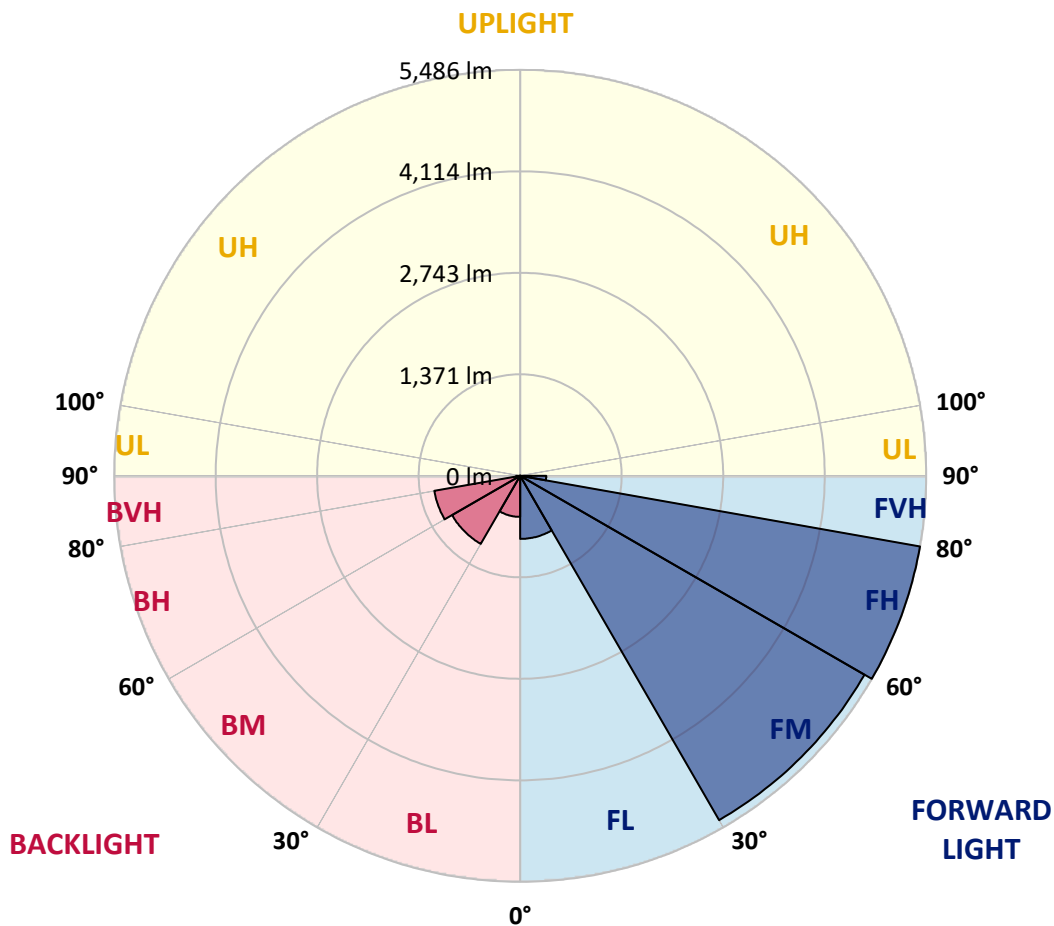
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.6	5.7			
FM (30°-60°)	5372.6	36.0			
FH (60°-80°)	5485.7	36.8			G3/7500
FVH (80°-90°)	352.4	2.4			G3/500
BL (0°-30°)	554.7	3.7	B2/1000		
BM (30°-60°)	1062.5	7.1	B2/2500		
BH (60°-80°)	1177.5	7.9	B3/2500		G3/2500
BVH (80°-90°)	51.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1313.6	1260.5	1206.9	1233.1	1274.9	1311.7	1304.2	1308.6	1258.0	1251.2	1384.1
5°	1547.6	1456.5	1454.6	1455.8	1459.6	1417.1	1520.7	1574.4	1586.3	1641.2	1771.6
7.5°	1628.7	1591.9	1554.4	1573.2	1525.7	1530.1	1657.4	1797.2	1830.2	1870.2	2048.7
10°	1611.8	1576.9	1588.1	1591.2	1600.0	1670.5	1752.2	1886.4	1914.5	2041.8	2088.0
12.5°	1614.3	1608.1	1660.5	1662.4	1756.0	1882.7	1915.1	2038.7	2049.9	2143.5	2336.3
15°	1699.8	1742.9	1713.6	1729.2	1747.3	1898.9	1945.7	2122.9	2190.3	2310.7	2455.5
17.5°	1866.4	1878.9	1790.9	1767.8	1827.1	1873.3	1980.0	2056.8	2127.3	2463.6	2663.3
20°	1905.1	1938.8	1834.0	1714.8	1840.2	1904.5	1978.8	2013.7	2068.6	2486.1	2769.4
22.5°	2071.1	2001.2	1874.6	1771.0	1812.2	1874.6	1928.2	2059.9	2204.0	2421.8	2875.5
25°	2165.3	2124.8	2011.8	1900.8	1865.8	1867.7	1971.3	2089.2	2139.1	2516.0	2896.7
27.5°	2393.1	2328.2	2074.2	2053.0	1921.4	1819.0	1978.1	2161.6	2249.0	2442.4	3000.3
30°	2678.3	2629.0	2295.8	2267.7	2066.8	1888.3	2065.5	2215.3	2202.8	2490.5	3072.0
32.5°	2909.2	2991.5	2655.2	2433.7	2290.8	2119.8	2038.0	2205.9	2330.1	2602.2	3193.7
35°	3238.7	3316.0	2935.4	2785.6	2475.5	2227.1	2229.6	2334.5	2411.2	2732.6	3329.8
37.5°	3809.0	3741.0	3434.6	3198.1	2999.7	2629.0	2517.9	2481.1	2542.9	2892.3	3596.2
40°	4220.2	4162.8	3802.1	3667.4	3281.1	3065.8	2761.3	2726.3	2835.5	3057.1	3814.0
42.5°	4707.6	4605.3	4269.5	4158.5	3754.7	3366.6	3059.6	3079.5	3132.6	3367.8	4108.5
45°	5203.7	4955.3	4765.0	4756.3	4486.7	3950.7	3538.2	3522.0	3523.8	3825.2	4439.3
47.5°	5597.4	5374.1	5156.3	5052.7	4916.6	4960.9	4233.3	4043.0	3985.6	4285.8	4935.4
50°	5863.9	5606.8	5360.3	5336.0	5699.2	5938.2	4886.1	4682.6	4718.2	4944.7	5596.8
52.5°	5869.5	5564.4	5307.3	5477.6	6333.2	6675.1	6010.5	5442.1	5555.6	5709.8	6459.8
55°	5461.4	5145.0	4977.8	5365.9	6580.9	7549.4	7590.6	6658.9	6527.9	6584.6	7491.3
57.5°	4600.9	4281.4	4184.0	4648.9	6111.0	8392.4	9498.8	8112.9	7728.5	7491.3	8548.4
60°	3463.3	3186.9	3126.3	3422.7	5066.4	8144.7	11043.9	9922.5	9139.4	8504.1	9608.6
62.5°	2597.2	2398.7	2307.6	2350.1	3505.7	7339.1	12058.5	12208.9	11100.0	9609.9	10644.5
65°	2110.4	1950.1	1868.9	1814.0	2180.3	5674.8	11875.1	14133.4	13390.2	10771.2	11450.7
67.5°	1762.9	1620.6	1583.1	1636.8	1723.5	3292.3	10439.8	15209.8	15260.4	11916.9	11921.9
70°	1463.3	1357.9	1344.1	1496.4	1610.6	1986.9	7540.6	14871.6	15429.5	12776.2	11811.4
72.5°	1130.7	1073.9	1072.1	1311.1	1600.0	1693.6	4490.4	12847.3	13596.7	12501.6	10730.6
75°	784.4	745.1	775.0	1077.7	1563.2	1717.9	2562.8	10006.8	10567.8	10638.3	8595.9
77.5°	539.8	506.7	539.2	779.4	1395.9	1759.1	1792.8	7235.5	7297.9	7133.8	4923.5
80°	375.7	352.6	377.5	551.6	1086.4	1741.0	1526.4	4555.3	4179.7	3183.7	1576.3
82.5°	232.8	225.9	253.4	393.1	765.0	1583.8	1446.5	2350.7	1794.7	878.6	562.9
85°	122.3	112.3	147.3	256.5	478.6	1243.0	1355.4	1072.7	692.7	312.0	225.9
87.5°	36.2	32.4	56.8	103.6	202.8	557.2	775.7	454.9	258.3	91.7	70.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1393.4	1386.6	1294.2	1306.1	1326.0	1331.0	1330.4	1296.7	1261.1	1360.4	1357.2
5°	1774.7	1712.9	1666.8	1656.8	1600.0	1543.2	1563.2	1556.3	1547.6	1592.5	1598.1
7.5°	2049.3	1963.8	1910.1	1772.2	1641.2	1527.6	1563.8	1575.0	1552.6	1633.7	1658.0
10°	2121.7	2054.3	1996.2	1819.0	1746.6	1680.5	1582.5	1470.8	1455.8	1409.0	1414.7
12.5°	2308.2	2298.9	2101.1	1945.1	1850.8	1719.2	1507.6	1372.2	1256.1	1261.8	1228.1
15°	2455.5	2460.5	2222.8	2004.3	1751.6	1550.7	1301.7	1133.2	1014.0	990.3	966.0
17.5°	2653.3	2643.3	2232.7	1933.2	1613.1	1318.6	1013.4	846.2	826.2	839.9	818.7
20°	2739.4	2651.5	2169.1	1756.6	1396.6	1001.6	765.7	677.1	715.7	770.7	771.9
22.5°	2816.8	2666.4	2136.0	1614.3	1108.3	728.2	614.7	598.4	644.0	718.2	724.5
25°	2813.7	2735.7	2076.7	1470.8	859.3	568.5	534.2	546.0	600.3	677.7	682.1
27.5°	2955.4	2682.7	1922.6	1282.4	647.1	486.7	495.5	517.3	542.9	616.5	630.9
30°	2954.1	2781.3	1845.2	1053.3	519.8	446.2	468.6	487.4	508.6	576.0	584.1
32.5°	3024.0	2717.0	1798.4	819.3	466.1	436.2	441.8	460.5	491.1	536.7	542.3
35°	3108.2	2790.0	1648.7	650.9	446.2	427.5	431.8	442.4	470.5	512.3	517.9
37.5°	3378.4	2803.7	1589.4	548.5	444.9	423.7	423.1	428.7	460.5	498.6	515.4
40°	3483.9	2929.1	1416.5	512.3	440.6	423.7	415.0	418.1	444.3	493.0	506.1
42.5°	3736.6	2971.0	1288.6	499.8	440.6	416.2	402.5	407.5	438.1	481.1	501.7
45°	3996.8	3030.2	1136.3	497.3	439.9	415.6	389.4	400.6	425.6	461.8	484.2
47.5°	4367.5	3243.6	984.1	489.9	434.9	418.7	386.3	385.6	407.5	438.7	459.9
50°	4972.2	3576.9	866.1	480.5	435.6	416.2	380.0	371.3	385.6	413.1	433.7
52.5°	5814.0	4144.7	820.0	475.5	430.6	406.2	369.4	355.7	363.8	385.6	405.6
55°	6791.2	4911.7	865.5	475.5	420.6	390.6	354.4	338.2	342.6	357.6	376.9
57.5°	7933.2	5864.5	1085.8	468.6	408.1	371.9	336.3	317.6	318.9	332.0	349.5
60°	9125.7	6929.1	1579.4	463.0	399.4	351.3	315.1	295.8	293.9	306.4	322.0
62.5°	10320.0	7911.3	2098.6	476.1	396.9	333.9	292.7	273.3	272.7	283.9	297.0
65°	11269.8	8582.8	2227.7	529.2	413.1	313.9	269.6	251.5	250.2	259.6	273.9
67.5°	11735.9	8680.1	1692.3	595.3	447.4	295.2	247.1	230.3	229.0	239.0	251.5
70°	11390.8	8014.9	1044.6	602.2	445.5	273.3	224.0	209.7	207.2	217.8	227.1
72.5°	10114.1	7010.9	793.8	532.9	385.6	242.1	200.9	188.5	184.7	194.1	202.8
75°	8117.9	5566.2	635.9	429.9	303.9	204.1	177.8	166.0	161.6	170.4	177.8
77.5°	4728.8	3131.3	464.9	335.7	229.6	166.6	151.6	141.0	136.0	145.4	151.0
80°	1537.6	1043.4	292.0	240.9	167.9	130.4	122.9	115.4	110.5	116.7	118.6
82.5°	552.3	388.1	161.6	147.9	111.7	93.6	93.0	88.6	82.4	84.9	84.9
85°	244.6	177.2	96.1	79.3	66.8	49.9	58.7	55.5	49.3	48.0	46.2
87.5°	68.6	58.7	34.9	26.8	21.8	8.1	18.7	16.8	13.7	12.5	8.7
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)