

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: P367962

Luminaire Tested: **MSA-SA3C-730-U-T4W**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367962
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-SA3C-730-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16811 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

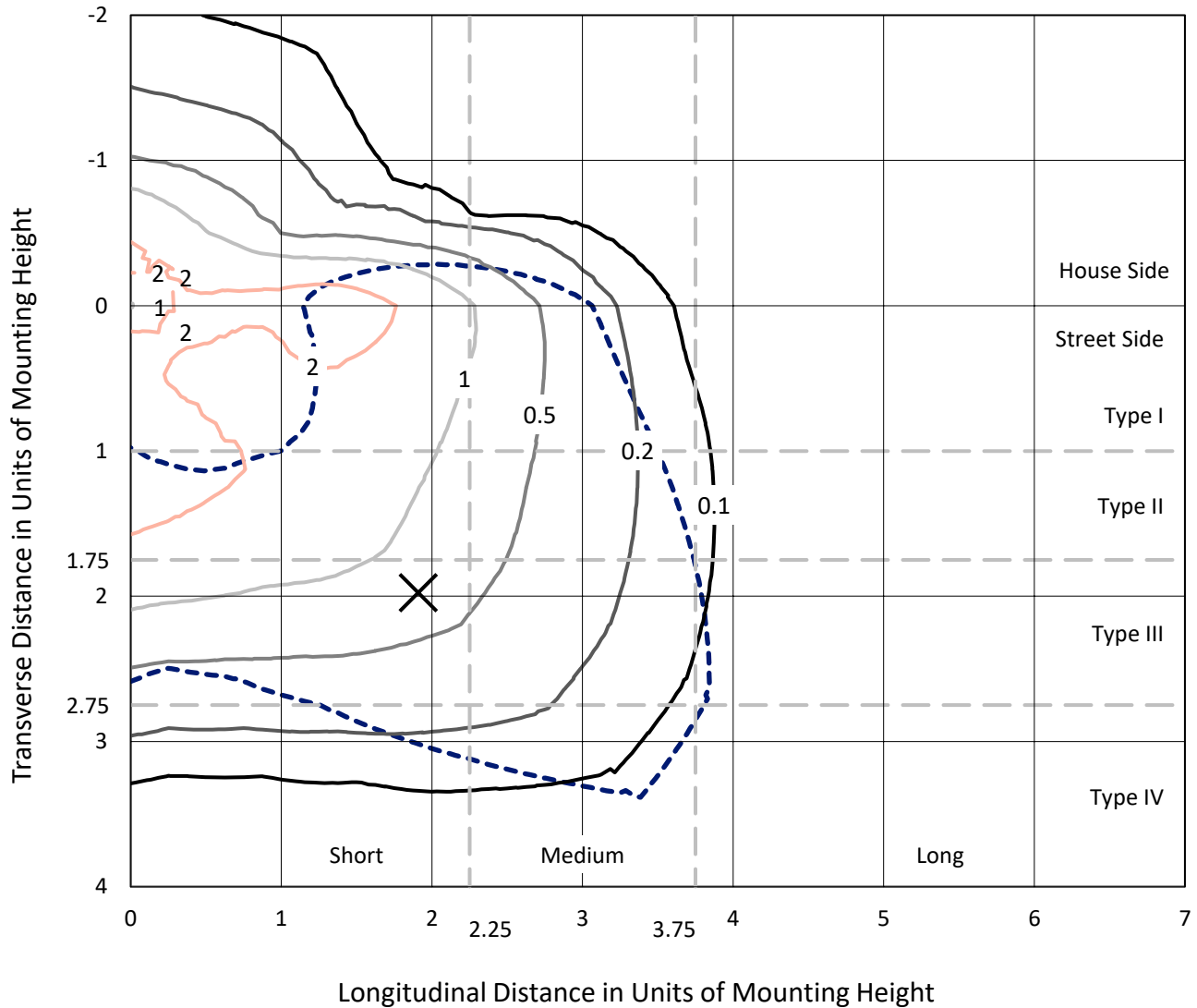
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

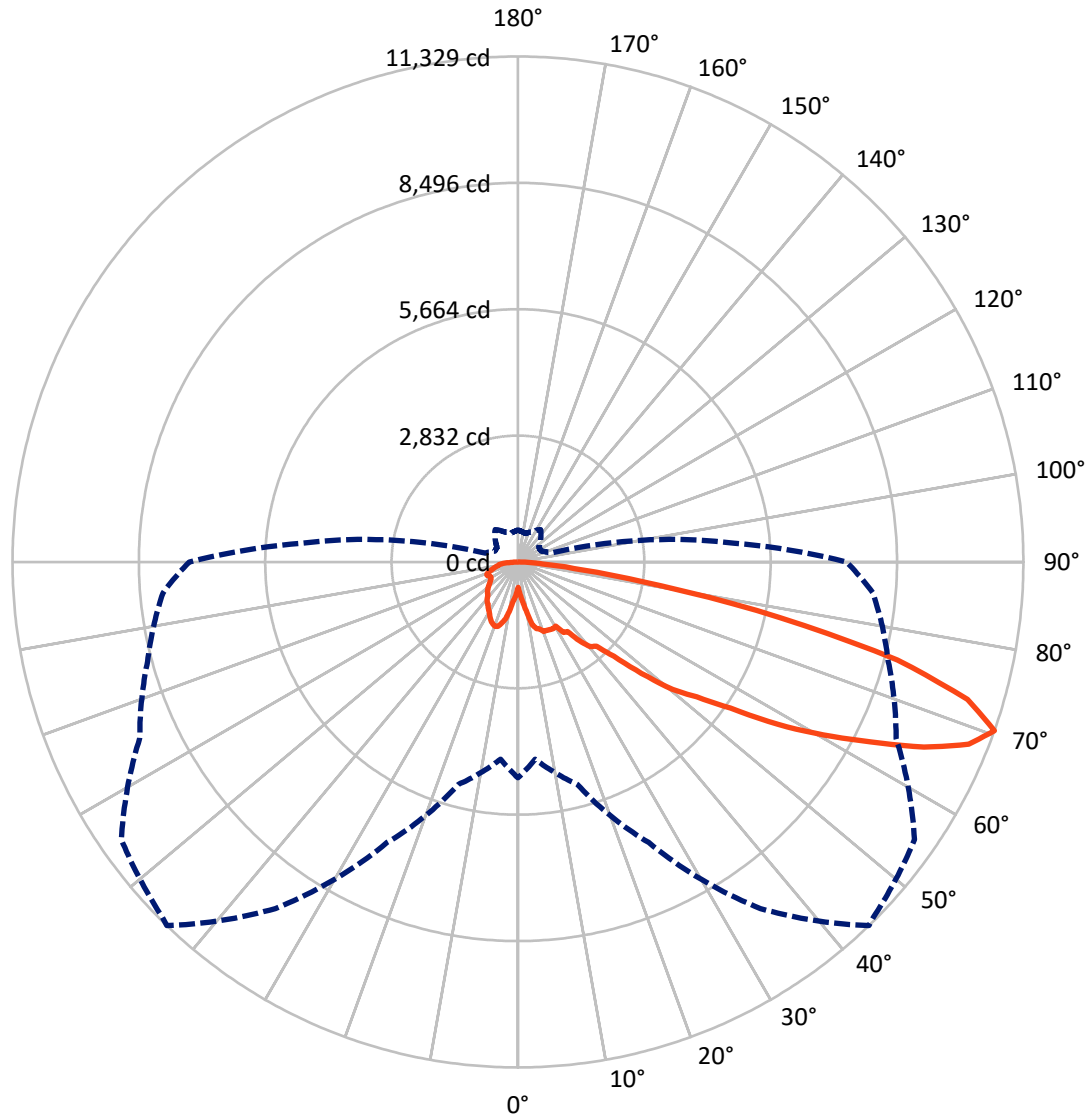
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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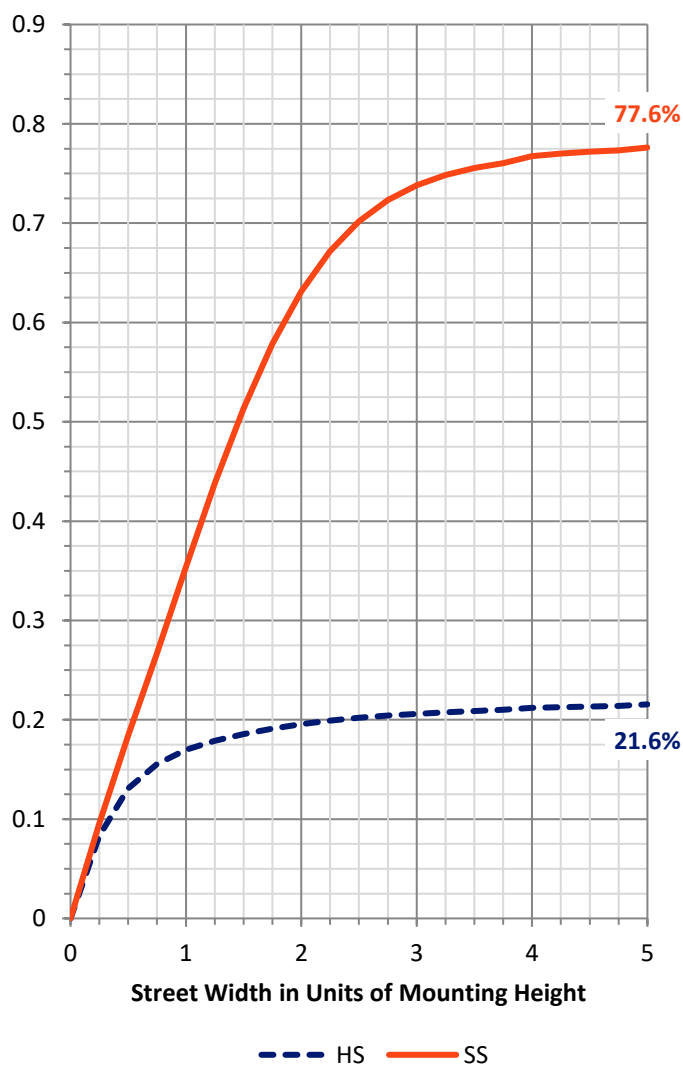
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3709.2	0.0	3709.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	13101.8	0.0	13101.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	16811.0	0.0	16811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.5
10°-20°	412.6	2.5
20°-30°	771.0	4.6
30°-40°	1237.6	7.4
40°-50°	2088.9	12.4
50°-60°	3722.4	22.1
60°-70°	5091.7	30.3
70°-80°	2994.2	17.8
80°-90°	403.1	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°	16811.0	100.0
0°-180°	16811.0	100.0

Coefficient of Utilization



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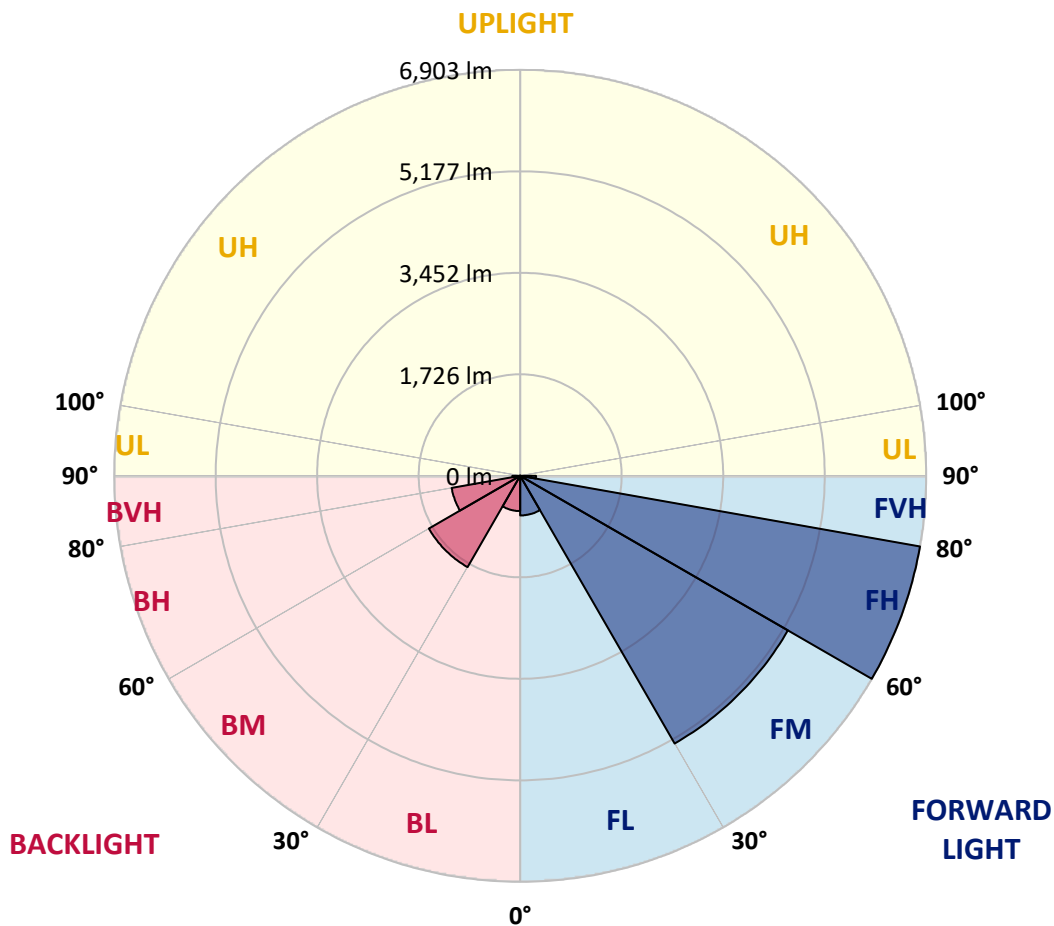
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.7	4.0			
FM (30°-60°)	5256.3	31.3			
FH (60°-80°)	6903.1	41.1			G3/7500
FVH (80°-90°)	268.7	1.6			G3/500
BL (0°-30°)	599.5	3.6	B2/1000		
BM (30°-60°)	1792.4	10.7	B2/2500		
BH (60°-80°)	1182.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	693.4	679.6	646.6	657.6	671.4	676.9	675.5	674.1	652.8	645.2	683.1
5°	942.3	911.9	887.8	878.2	846.5	821.6	806.5	846.5	840.3	850.6	876.8
7.5°	1176.6	1157.3	1102.9	1083.6	1018.8	976.0	971.2	1002.9	1011.2	994.7	1039.5
10°	1327.6	1294.5	1283.5	1237.3	1192.5	1185.6	1181.5	1167.0	1147.0	1145.6	1105.6
12.5°	1444.8	1462.0	1471.0	1417.9	1419.3	1444.1	1431.0	1372.4	1338.6	1279.3	1284.2
15°	1655.0	1679.8	1608.8	1575.0	1510.3	1547.5	1542.6	1493.7	1488.9	1450.3	1405.5
17.5°	1838.4	1849.4	1730.8	1653.6	1631.6	1577.8	1592.3	1593.7	1530.2	1599.2	1559.2
20°	1853.5	1892.8	1756.3	1602.6	1668.8	1661.9	1664.0	1650.2	1566.8	1680.5	1665.3
22.5°	1928.0	1868.0	1745.3	1632.9	1650.2	1660.5	1670.2	1653.6	1648.8	1712.2	1758.4
25°	1914.2	1894.9	1770.8	1675.7	1677.8	1679.8	1684.6	1734.3	1728.8	1814.9	1839.0
27.5°	2043.1	2013.4	1778.4	1755.0	1701.2	1689.5	1656.4	1759.8	1840.4	1838.4	1971.4
30°	2288.5	2258.1	1954.8	1886.6	1789.4	1669.5	1732.9	1870.8	1934.2	1955.5	2124.4
32.5°	2671.7	2721.3	2302.3	2027.2	1906.6	1880.4	1873.5	1859.7	2016.9	2122.3	2276.1
35°	3221.8	3182.5	2711.7	2328.4	2030.0	1917.6	1932.8	2016.9	2203.7	2271.9	2413.9
37.5°	3851.8	3770.5	3236.3	2669.7	2385.7	2245.0	2194.7	2276.1	2317.4	2371.2	2661.4
40°	4492.2	4293.6	3751.2	3118.4	2599.3	2493.2	2449.1	2349.1	2446.3	2555.2	2924.0
42.5°	5110.5	4956.7	4311.6	3654.0	2959.2	2580.7	2556.6	2458.7	2759.9	2875.1	3303.1
45°	5758.4	5402.0	4885.7	4258.5	3485.1	3010.2	2974.3	2798.6	3184.6	3424.4	3838.0
47.5°	6194.0	5863.9	5411.7	4749.3	3925.6	3728.4	3660.2	3359.6	3709.8	4021.4	4664.5
50°	6606.2	6266.4	5791.5	5286.2	4723.1	4496.3	4350.8	3850.4	4363.9	4871.3	5723.9
52.5°	7196.3	6892.3	6232.6	5827.3	5579.9	5022.2	4914.0	4639.0	5129.1	5813.5	6882.0
55°	7827.0	7412.7	6815.1	6590.4	6490.4	5776.3	5688.1	5513.0	6147.8	6777.9	8007.6
57.5°	8105.5	7673.3	7343.8	7209.4	7201.1	6872.3	6771.0	6649.0	7189.4	7605.0	9067.0
60°	8326.7	7862.8	7731.2	7806.3	8079.3	7862.8	7731.2	7623.6	8037.2	8422.5	9931.4
62.5°	8286.1	7820.8	7888.3	8117.2	8814.1	8877.5	8776.1	8515.6	8877.5	9092.5	10427.0
65°	7629.8	7199.7	7593.3	8136.5	9497.1	10003.8	9998.3	9316.6	9442.0	9442.0	10374.6
67.5°	6480.1	6034.8	6679.3	7966.2	9969.3	10896.4	10897.8	10165.8	9493.7	9406.9	9564.0
70°	4838.9	4435.6	5160.1	6937.8	9482.0	11328.6	11265.9	10850.9	9351.7	8592.8	7989.0
72.5°	2890.2	2629.7	3296.2	5050.5	8088.2	10533.9	10700.7	10061.7	8561.1	7146.0	5710.8
75°	1312.4	1199.4	1548.9	2901.3	5774.2	8786.5	8967.8	8491.5	6799.9	5139.4	3300.4
77.5°	561.8	531.4	676.2	1286.9	3183.9	6008.6	6380.1	6068.6	4607.3	2986.7	1459.9
80°	361.2	341.9	415.6	619.0	1478.5	3246.6	3566.4	3449.9	2347.1	1161.5	514.2
82.5°	215.8	209.5	277.8	388.8	806.5	1428.9	1610.2	1652.9	974.7	521.1	294.3
85°	117.9	119.2	152.3	235.7	483.9	556.3	595.6	647.9	459.1	301.9	142.7
87.5°	39.3	45.5	61.3	95.8	172.3	157.2	157.8	183.4	193.7	125.5	45.5
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°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	689.3	676.9	645.2	647.3	659.0	661.7	665.2	645.2	641.0	679.0	682.4
5°	880.9	840.3	821.6	815.4	797.5	791.3	824.4	839.6	854.7	884.4	898.8
7.5°	1034.6	989.1	955.4	924.3	898.2	883.0	938.8	981.6	1007.8	1068.4	1096.0
10°	1104.9	1065.7	1053.2	1028.4	1048.4	1093.9	1104.3	1105.6	1163.5	1162.2	1173.9
12.5°	1244.9	1219.4	1178.7	1187.7	1240.0	1286.9	1273.8	1293.8	1314.5	1364.1	1341.4
15°	1372.4	1365.5	1327.6	1333.8	1344.1	1402.7	1410.3	1430.3	1462.0	1501.3	1474.4
17.5°	1529.6	1526.8	1434.4	1426.2	1450.3	1507.5	1489.6	1454.4	1559.2	1601.2	1590.2
20°	1636.4	1615.7	1497.2	1462.0	1523.3	1530.9	1510.3	1454.4	1545.4	1637.1	1661.9
22.5°	1725.3	1701.2	1579.2	1510.3	1497.8	1501.3	1501.3	1491.0	1535.8	1610.9	1610.2
25°	1797.0	1819.7	1664.7	1598.5	1532.3	1449.6	1439.3	1448.2	1473.7	1618.5	1613.6
27.5°	1976.9	1914.2	1693.6	1644.0	1508.2	1377.9	1406.2	1420.0	1428.2	1586.8	1613.0
30°	2094.1	2113.4	1797.0	1670.9	1473.0	1297.9	1307.6	1347.6	1395.8	1583.3	1590.9
32.5°	2251.9	2210.6	1958.3	1626.1	1379.3	1249.7	1231.8	1285.5	1357.2	1527.5	1548.2
35°	2398.8	2447.7	2026.5	1617.8	1313.8	1177.3	1196.6	1215.2	1289.7	1465.4	1489.6
37.5°	2743.4	2631.7	2218.2	1577.8	1259.3	1140.8	1120.1	1148.4	1211.8	1347.6	1403.4
40°	3005.3	3012.2	2259.5	1527.5	1155.3	1088.4	1044.3	1072.5	1099.4	1207.7	1231.8
42.5°	3496.8	3346.5	2360.8	1417.2	1089.8	1009.8	985.0	997.4	1001.6	1047.0	1087.0
45°	4122.0	3769.8	2400.8	1269.0	1003.6	977.4	927.1	920.9	898.2	904.4	939.5
47.5°	4987.1	4430.1	2371.9	1111.1	927.1	935.4	863.0	834.7	803.0	810.6	843.7
50°	6105.8	5273.8	2369.8	977.4	874.7	880.2	821.0	769.9	738.2	754.1	783.0
52.5°	7361.0	6120.3	2379.5	885.7	817.5	814.8	793.4	731.3	705.8	722.4	755.5
55°	8561.8	6848.2	2451.1	827.8	758.2	763.1	771.3	718.9	690.7	705.8	740.3
57.5°	9606.7	7423.1	2424.3	766.5	703.1	725.1	747.2	701.7	680.3	702.4	736.9
60°	10337.4	7689.8	2212.0	707.9	662.4	692.7	735.5	699.6	696.9	744.4	785.8
62.5°	10604.2	7591.2	1798.4	661.7	638.3	688.6	762.4	745.1	747.9	806.5	863.7
65°	10214.7	7072.9	1341.4	632.1	619.7	708.6	824.4	772.0	734.1	782.4	834.7
67.5°	9107.0	6151.3	980.2	606.6	598.3	740.3	881.6	769.3	698.9	747.9	790.6
70°	7367.9	4855.4	758.9	574.2	570.0	718.9	887.1	748.6	661.0	692.7	716.9
72.5°	5048.4	3324.5	628.6	543.2	521.1	636.9	842.3	702.4	615.5	634.2	654.1
75°	2821.3	1865.9	528.7	504.6	456.3	567.3	789.9	674.8	581.8	587.3	614.9
77.5°	1266.2	807.2	448.7	453.6	397.7	501.8	721.7	630.7	530.1	517.7	545.2
80°	479.1	393.6	363.9	383.2	334.3	434.9	650.7	590.7	475.6	459.8	475.6
82.5°	277.8	238.5	270.2	295.0	265.4	399.8	621.1	554.2	419.1	379.1	392.9
85°	128.9	123.4	162.0	191.6	185.4	311.6	531.4	417.0	298.5	252.3	279.2
87.5°	33.8	37.9	57.2	67.6	68.9	106.8	204.7	155.1	116.5	88.2	84.8
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)