

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: P367430

Luminaire Tested: **MSA-SA2C-730-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367430
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-SA2C-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: 11219 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

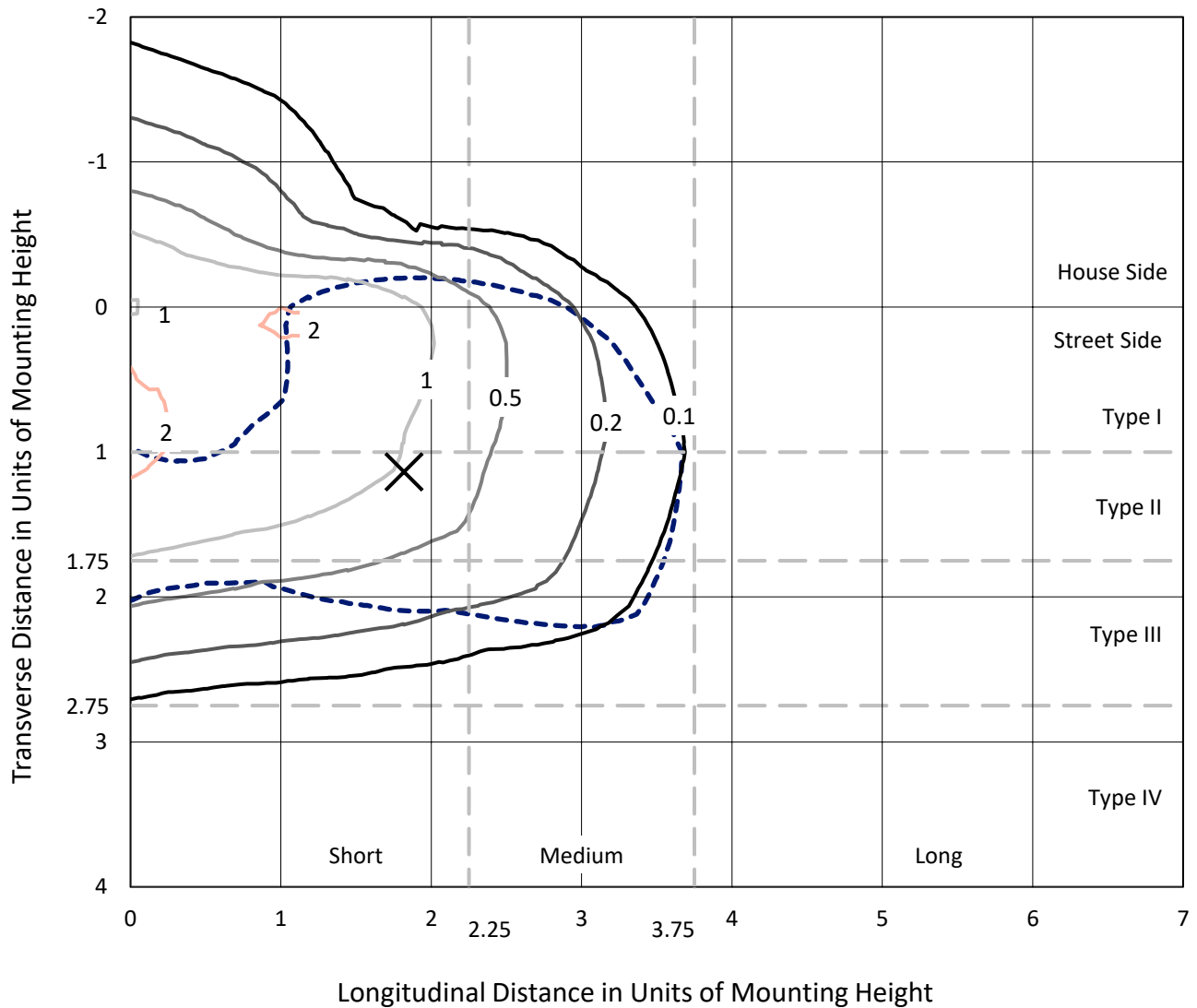
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

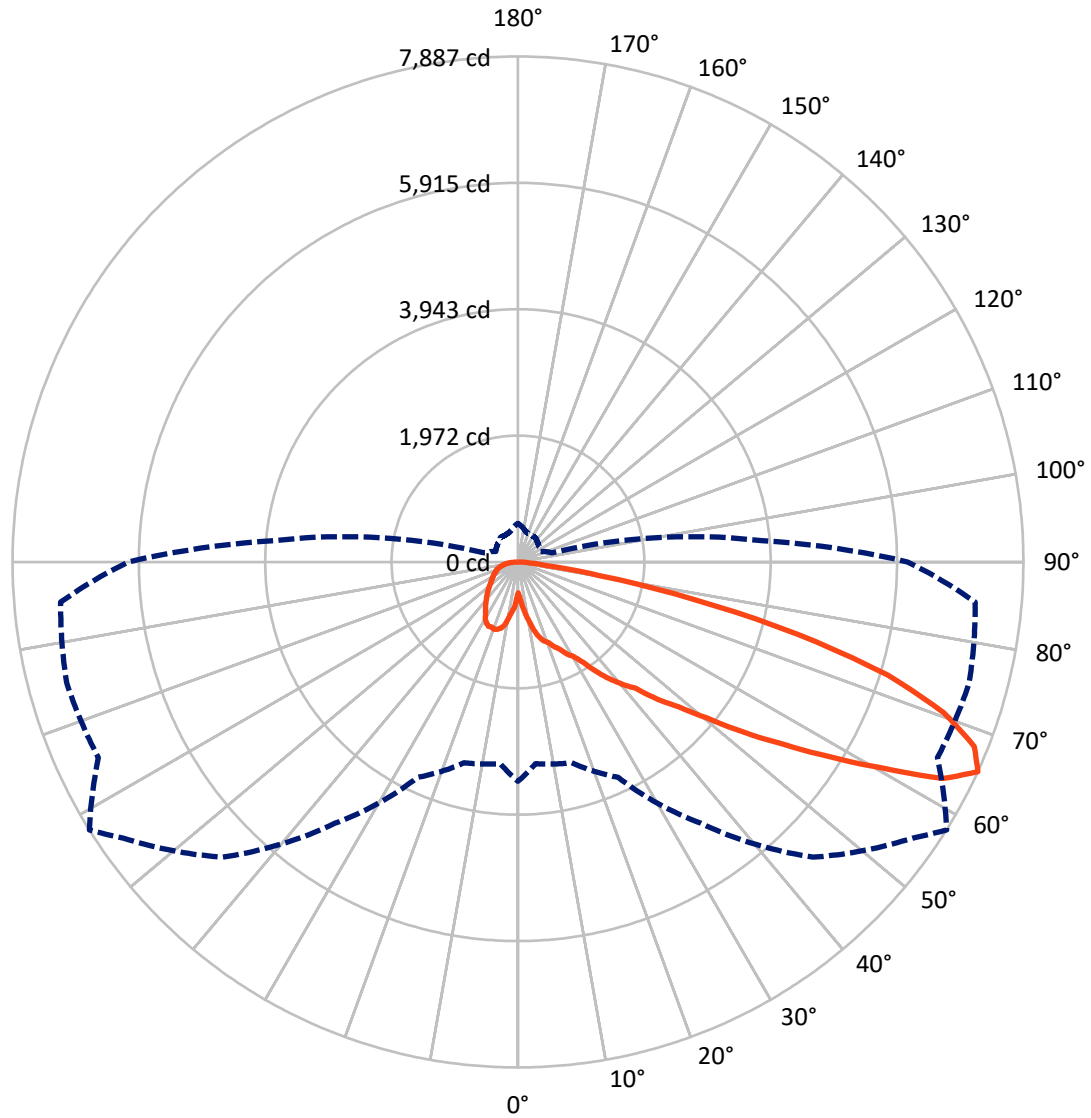
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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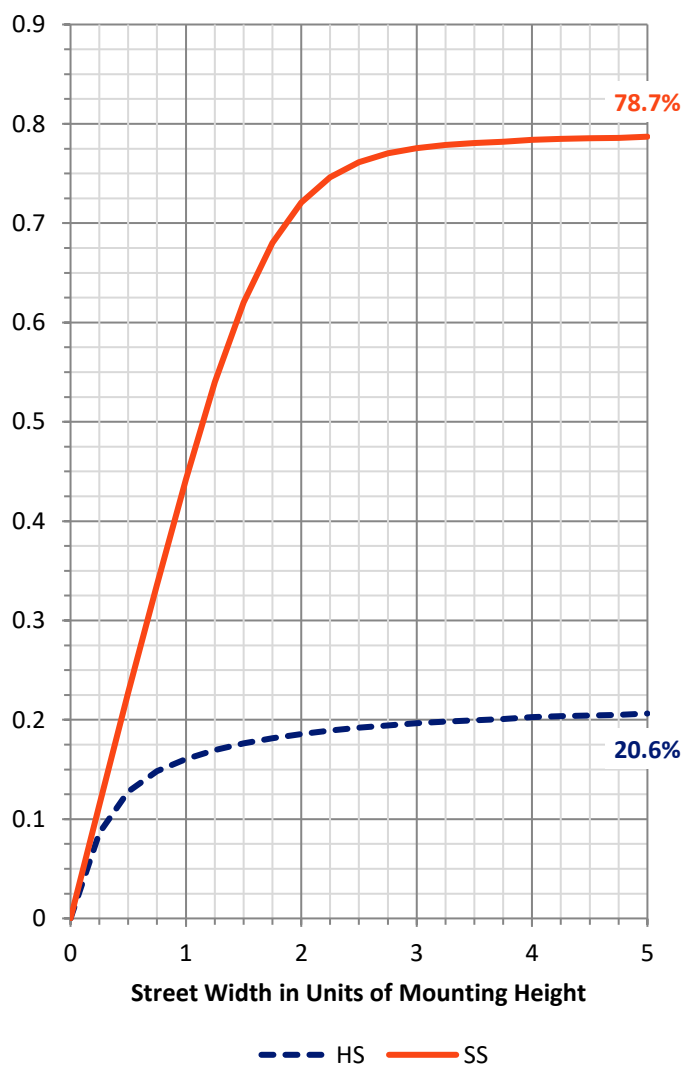
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.1	0.0	2363.1
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	8855.9	0.0	8855.9
	% Fixture	78.9	0.0	78.9
Total	Lumens	11219.0	0.0	11219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	0.7
10°-20°	320.2	2.9
20°-30°	614.4	5.5
30°-40°	1014.3	9.0
40°-50°	1685.9	15.0
50°-60°	2784.2	24.8
60°-70°	3123.4	27.8
70°-80°	1420.1	12.7
80°-90°	183.2	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°	11219.0	100.0
0°-180°	11219.0	100.0

Coefficient of Utilization

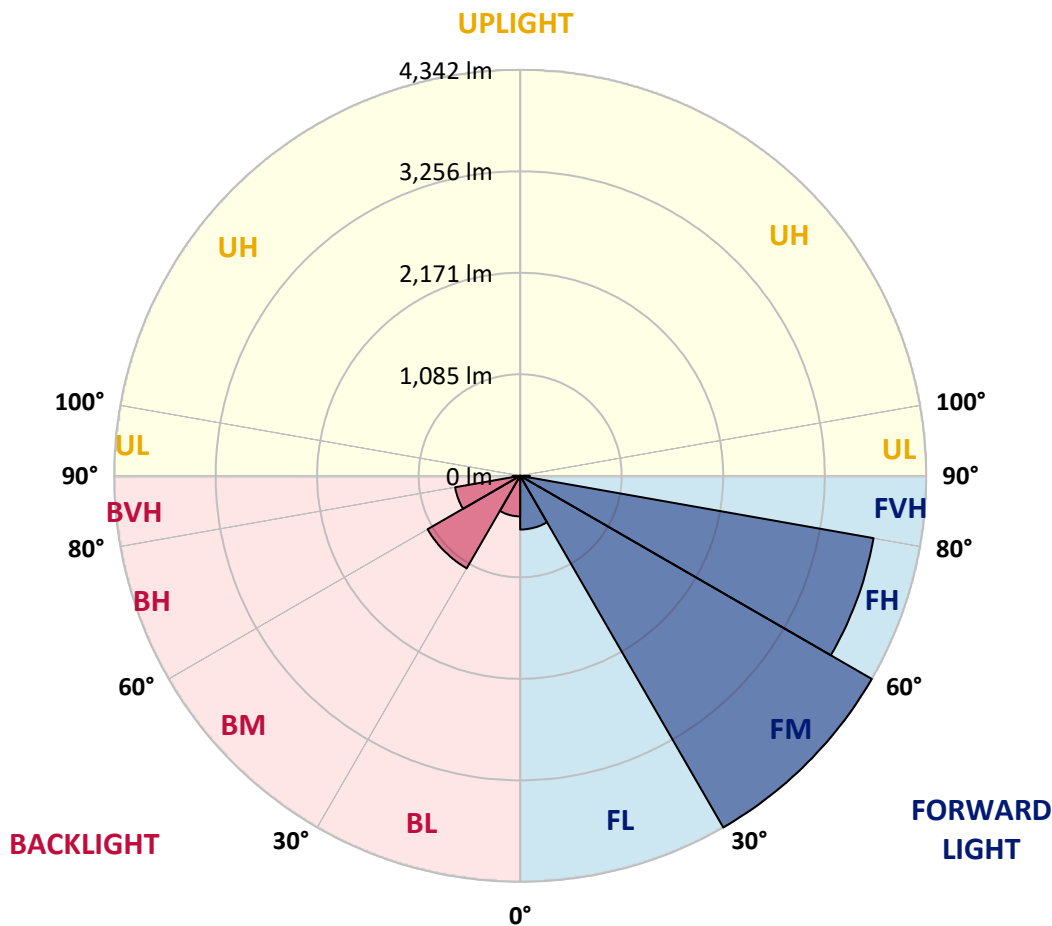


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.1	5.1			
FM	(30°-60°)	4341.6	38.7			
FH	(60°-80°)	3837.1	34.2			G2/5000
FVH	(80°-90°)	103.1	0.9			G2/225
BL	(0°-30°)	433.8	3.9	B1/500		
BM	(30°-60°)	1142.8	10.2	B2/2500		
BH	(60°-80°)	706.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	80.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7
2.5°	575.1	557.8	528.9	535.9	552.7	562.1	556.4	549.0	539.2	537.3	580.3
5°	744.7	711.6	698.0	692.4	671.8	659.7	680.7	677.9	689.1	709.7	751.7
7.5°	868.5	845.2	822.8	820.4	780.7	766.7	794.7	809.7	829.8	830.2	887.2
10°	934.9	914.8	914.3	893.3	890.0	916.7	917.1	928.3	930.7	954.5	943.3
12.5°	1006.8	1005.4	1031.1	1030.7	1060.6	1104.5	1082.5	1082.5	1089.1	1060.1	1095.6
15°	1178.3	1193.3	1145.1	1153.1	1153.1	1196.1	1194.7	1203.1	1223.2	1215.7	1199.8
17.5°	1356.8	1366.1	1312.9	1263.3	1267.1	1257.7	1291.4	1294.6	1275.5	1362.4	1343.2
20°	1471.7	1508.2	1396.0	1333.9	1346.0	1356.8	1358.2	1338.1	1328.3	1461.9	1435.7
22.5°	1613.7	1582.9	1480.1	1411.4	1429.7	1415.2	1412.4	1427.8	1441.3	1491.8	1534.3
25°	1708.6	1706.2	1582.9	1507.7	1487.6	1483.4	1511.9	1505.8	1538.1	1629.6	1603.0
27.5°	1846.4	1889.4	1670.7	1689.4	1601.1	1508.2	1599.7	1627.3	1685.2	1670.3	1729.6
30°	2113.7	2081.4	1853.0	1847.8	1747.8	1669.8	1733.3	1710.0	1814.2	1810.9	1854.8
32.5°	2331.8	2354.3	2066.9	2013.2	1938.9	1845.0	1803.0	1867.9	1924.0	2016.0	2040.8
35°	2562.6	2557.5	2286.1	2177.7	2054.8	2016.0	2067.9	2095.0	2214.1	2298.7	2239.8
37.5°	2921.5	2880.8	2570.1	2365.0	2273.0	2259.0	2347.7	2308.5	2437.4	2457.5	2490.7
40°	3255.0	3132.6	2829.9	2594.9	2448.6	2501.0	2503.8	2508.9	2578.1	2632.7	2796.7
42.5°	3572.3	3486.3	3093.9	2917.3	2701.9	2650.9	2682.7	2693.5	2868.2	2979.9	3206.9
45°	4005.9	3775.5	3473.2	3292.0	3050.9	2985.9	2963.5	3056.0	3224.7	3478.8	3673.7
47.5°	4372.6	4164.7	3876.4	3637.7	3368.1	3553.6	3426.5	3374.7	3601.2	3916.1	4226.4
50°	4676.8	4447.8	4165.2	4027.3	3984.4	4149.8	3819.9	3826.0	4033.4	4477.7	4833.3
52.5°	4912.2	4667.9	4417.5	4347.4	4587.5	4682.8	4444.6	4408.6	4560.0	5085.1	5512.1
55°	5132.3	4873.0	4679.6	4822.5	5227.1	5237.9	5221.1	5021.6	5203.8	5735.9	6214.8
57.5°	5188.8	4909.4	4781.0	4986.1	5533.2	5958.8	6126.0	5734.5	5920.0	6327.9	6816.6
60°	4897.8	4658.5	4607.2	4885.6	5698.6	6320.9	6757.7	6523.6	6454.0	6803.0	7238.0
62.5°	4301.6	4024.1	4065.7	4452.5	5524.3	6464.3	7256.7	7439.4	7017.9	7181.0	7422.1
65°	3423.7	3158.8	3242.9	3708.2	4977.2	6512.0	7511.8	7886.5	7221.7	7288.0	7161.4
67.5°	2414.5	2173.9	2280.0	2881.7	4140.4	5901.8	7555.7	7678.1	7004.9	6982.9	6449.4
70°	1368.0	1217.1	1332.0	1833.8	2922.4	4701.5	7211.4	7050.2	6616.1	6305.0	5396.3
72.5°	627.5	575.6	630.7	933.5	1682.4	3128.4	5887.3	6033.5	5700.9	5311.7	4105.4
75°	333.6	315.4	338.7	466.3	787.2	1702.0	4182.9	4511.8	4334.8	4028.7	2678.0
77.5°	248.1	234.1	245.3	302.3	420.5	665.8	2376.7	2791.6	2858.9	2577.1	1487.1
80°	190.2	178.9	190.2	228.5	291.1	316.3	1016.2	1301.2	1482.0	1197.5	591.0
82.5°	141.1	133.6	150.9	171.5	204.6	197.6	360.7	449.0	578.9	395.7	230.3
85°	112.1	102.8	109.3	116.3	130.8	108.4	164.9	184.5	195.3	163.5	85.0
87.5°	43.9	40.6	79.4	62.6	53.3	32.7	49.5	56.1	57.5	55.1	24.8
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°	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7
2.5°	584.9	580.3	552.7	561.6	576.1	578.9	584.9	568.1	559.7	590.6	592.0
5°	755.5	730.2	717.2	718.6	709.2	694.7	716.7	731.2	736.8	759.7	768.1
7.5°	887.7	857.3	835.4	810.1	774.6	751.7	790.1	818.1	833.0	880.7	899.4
10°	946.6	922.3	917.6	885.8	884.9	884.4	882.6	872.7	905.0	900.3	913.4
12.5°	1068.0	1062.9	1018.5	1005.9	1007.3	1005.9	966.7	964.8	965.3	1008.2	992.8
15°	1181.1	1182.0	1141.4	1095.6	1054.5	1041.9	1026.5	1019.5	1029.7	1054.0	1039.1
17.5°	1320.8	1325.5	1209.1	1136.7	1082.5	1081.1	1044.2	1000.8	1063.4	1078.3	1062.0
20°	1411.0	1391.3	1248.4	1126.9	1111.5	1069.4	1023.7	963.9	1018.0	1054.5	1064.8
22.5°	1496.5	1462.4	1284.8	1144.2	1070.4	1020.4	976.0	937.2	954.5	995.2	988.6
25°	1554.4	1545.1	1335.3	1185.8	1069.0	957.8	898.0	873.2	882.1	945.2	939.1
27.5°	1692.7	1591.8	1326.4	1196.5	1024.1	872.3	842.4	815.7	806.9	875.1	893.8
30°	1785.2	1743.6	1385.7	1179.7	967.6	802.2	758.3	752.7	755.5	833.0	838.2
32.5°	1942.2	1834.3	1482.9	1115.2	885.4	750.3	699.9	702.2	714.8	771.4	783.0
35°	2105.7	2041.2	1496.0	1069.0	818.6	695.2	674.7	658.3	665.3	714.8	717.2
37.5°	2409.4	2186.5	1576.4	997.5	769.5	674.2	634.9	620.5	624.2	652.2	672.3
40°	2676.6	2478.5	1539.0	928.3	708.8	646.2	597.1	586.3	575.1	602.7	615.3
42.5°	3105.1	2686.9	1526.4	852.2	680.3	608.3	574.7	546.2	535.4	558.8	581.7
45°	3533.5	2907.9	1457.7	775.1	640.1	605.5	542.0	514.9	517.7	538.7	562.1
47.5°	4011.0	3204.6	1341.4	700.3	596.2	592.0	509.3	497.6	506.0	529.3	552.7
50°	4575.4	3519.5	1245.1	633.1	564.9	551.3	505.1	491.0	499.0	526.5	549.4
52.5°	5192.6	3864.8	1175.0	570.9	529.3	519.1	510.7	497.1	506.5	530.3	554.1
55°	5806.0	4180.1	1127.4	528.4	499.0	505.5	522.3	512.5	517.2	535.0	558.8
57.5°	6261.1	4346.4	1031.6	483.1	474.2	497.6	523.7	507.4	510.2	535.0	560.7
60°	6525.5	4378.2	874.1	446.2	454.6	481.7	509.3	488.2	486.4	527.0	559.2
62.5°	6496.5	4193.7	693.3	412.5	432.2	457.9	487.3	467.2	472.3	527.9	562.1
65°	6081.7	3816.6	551.3	384.0	405.1	431.7	469.1	461.1	485.9	565.3	602.2
67.5°	5352.8	3265.8	442.9	357.4	379.8	413.9	481.7	502.7	513.5	603.6	641.5
70°	4338.0	2537.4	369.1	334.1	359.8	422.4	518.1	513.9	505.1	585.4	615.3
72.5°	3134.0	1739.4	324.7	311.2	335.0	397.1	519.1	496.6	485.4	534.5	556.0
75°	1960.9	1037.7	283.6	282.2	297.1	356.0	495.7	475.6	445.3	469.5	497.6
77.5°	1119.9	531.2	238.7	251.4	260.2	308.8	443.8	425.6	398.5	408.8	436.4
80°	427.5	257.0	201.4	223.3	221.0	261.6	376.1	371.9	341.1	344.3	361.2
82.5°	201.4	143.9	167.3	192.0	179.4	208.4	305.6	304.2	277.1	250.9	264.4
85°	74.8	76.6	122.4	146.2	124.7	134.6	221.0	214.9	188.8	159.3	176.1
87.5°	16.8	27.6	60.3	76.2	43.5	41.6	89.2	77.6	74.8	44.4	46.7
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)