

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: P596976

Luminaire Tested: **MSA-SA2C-835-U-T3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-835-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: 10155 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

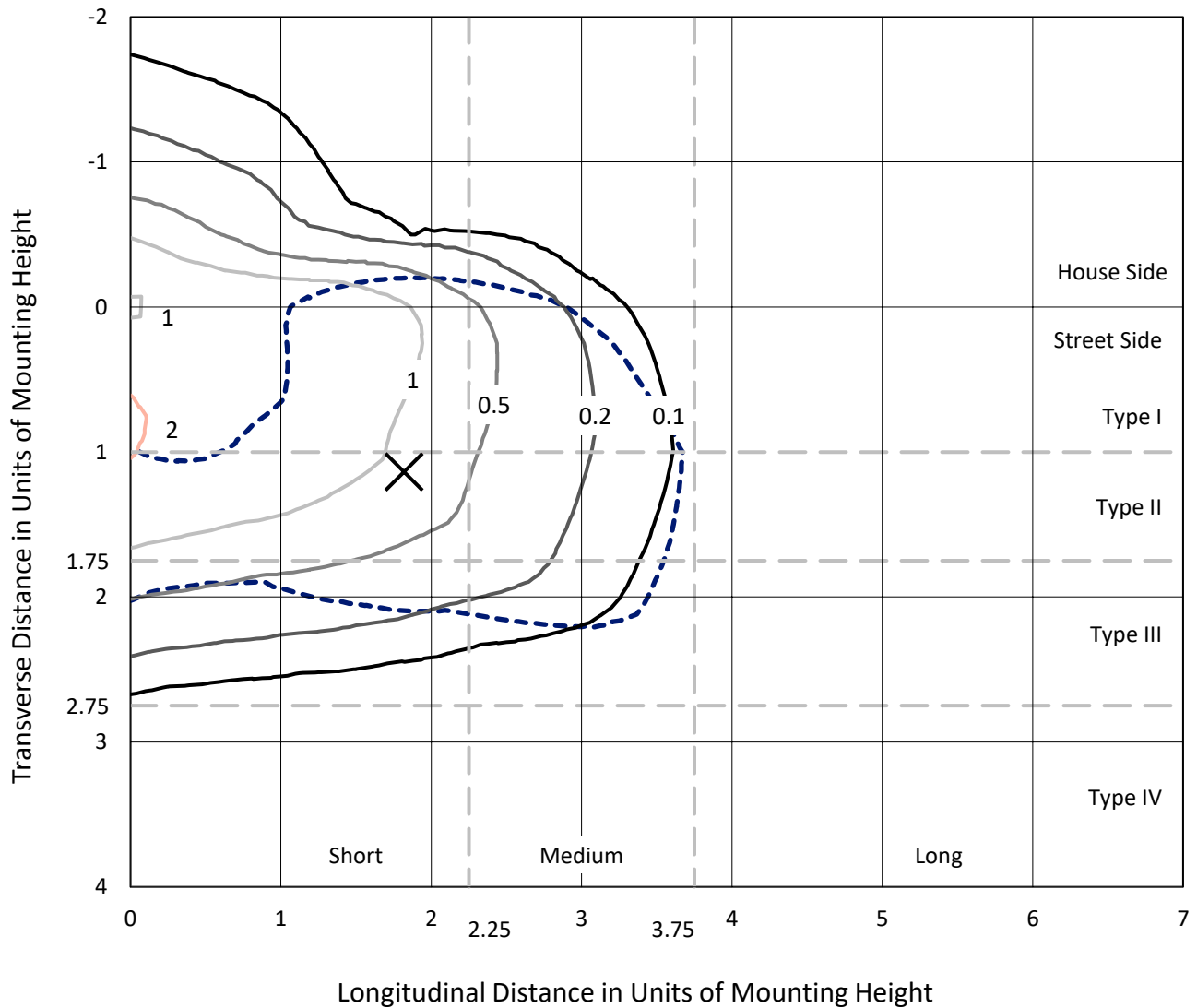
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

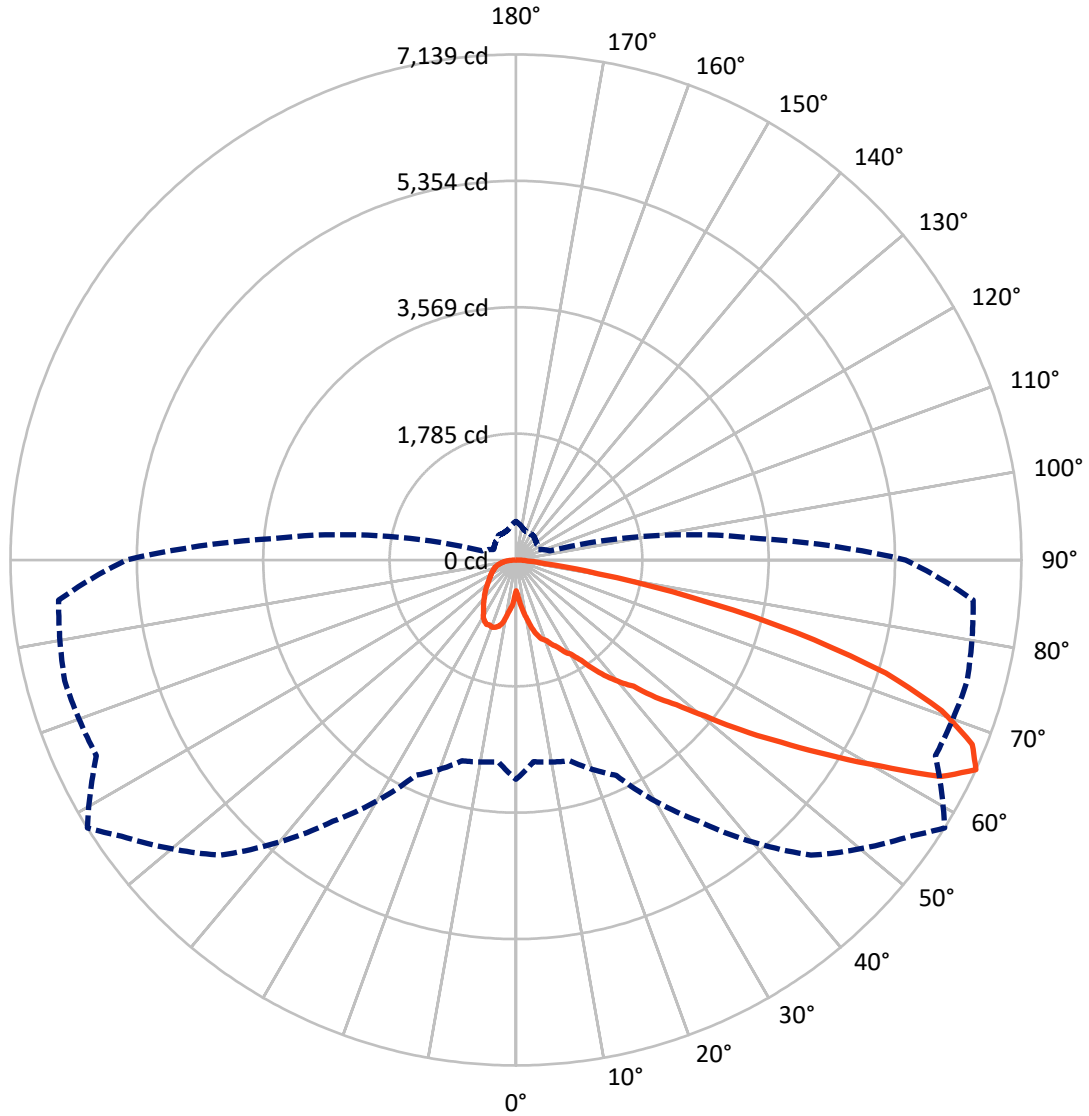
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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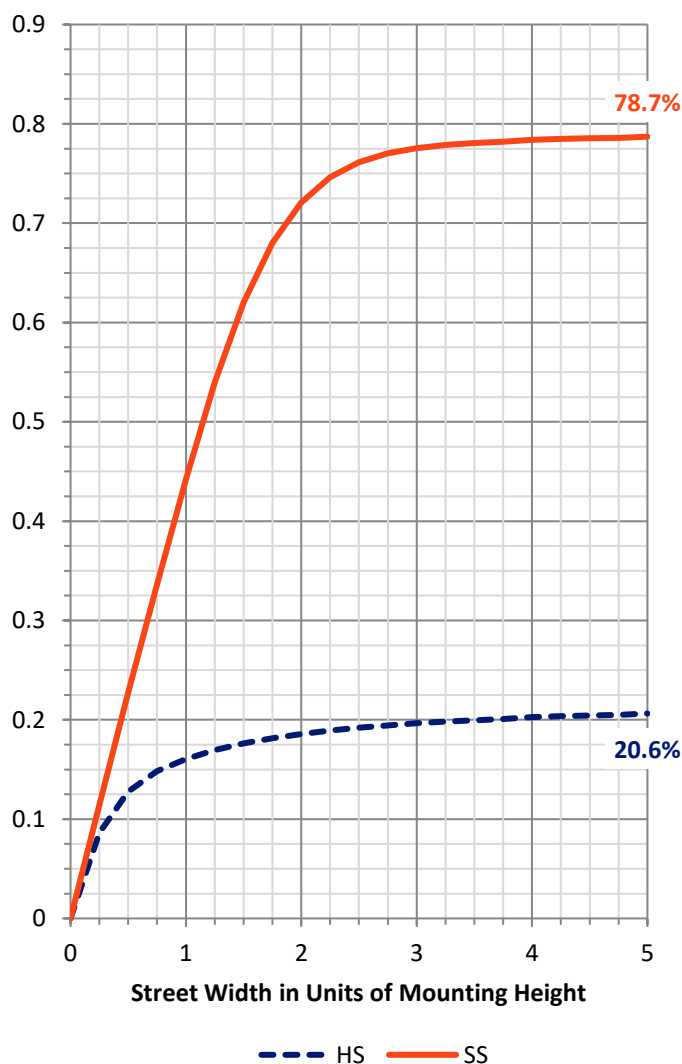
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.9	0.0	2138.9
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	8016.1	0.0	8016.1
	% Fixture	78.9	0.0	78.9
Total	Lumens	10155.0	0.0	10155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	0.7
10°-20°	289.8	2.9
20°-30°	556.1	5.5
30°-40°	918.1	9.0
40°-50°	1526.0	15.0
50°-60°	2520.2	24.8
60°-70°	2827.2	27.8
70°-80°	1285.4	12.7
80°-90°	165.8	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°	10155.0	100.0
0°-180°	10155.0	100.0

Coefficient of Utilization

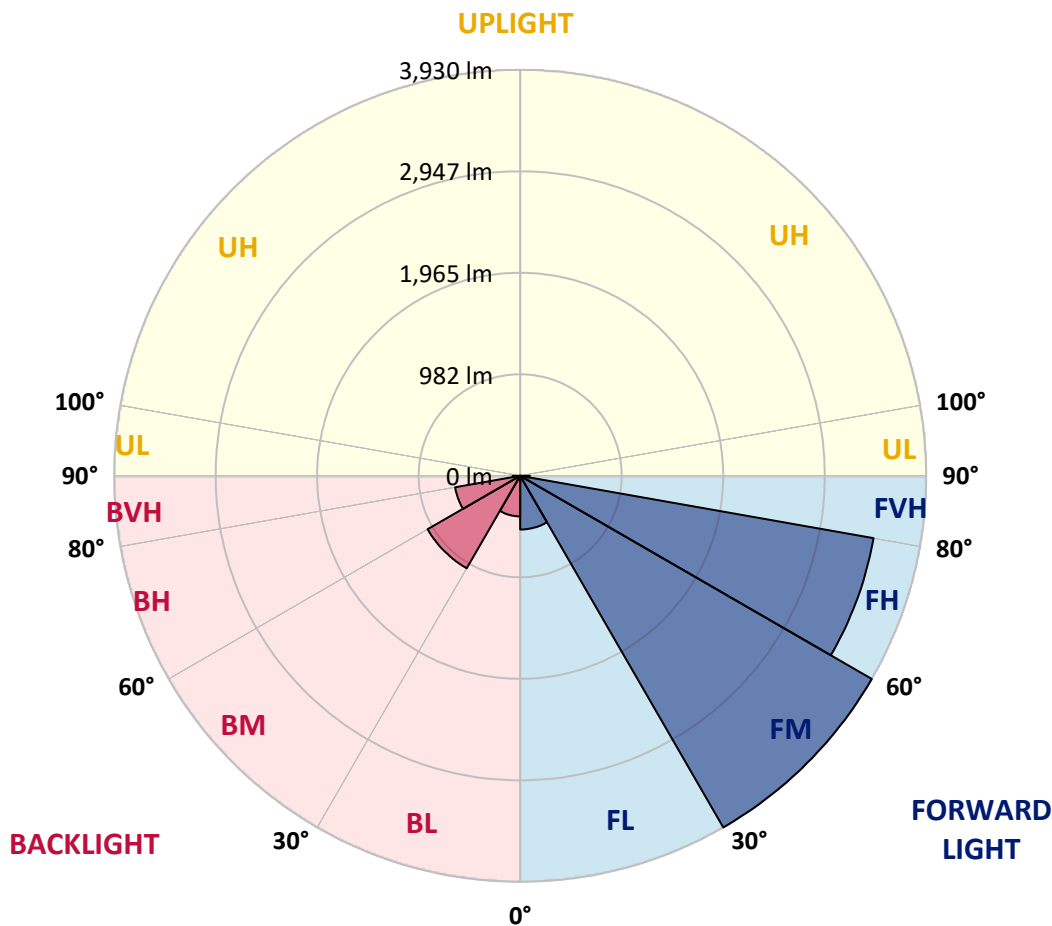


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.7	5.1			
FM (30°-60°)	3929.8	38.7			
FH (60°-80°)	3473.2	34.2			G2/5000
FVH (80°-90°)	93.4	0.9			G1/100
BL (0°-30°)	392.7	3.9	B1/500		
BM (30°-60°)	1034.5	10.2	B2/2500		
BH (60°-80°)	639.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	72.4	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°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	520.6	504.9	478.7	485.1	500.3	508.7	503.7	496.9	488.0	486.3	525.2
5°	674.1	644.1	631.8	626.7	608.1	597.1	616.2	613.6	623.8	642.4	680.4
7.5°	786.2	765.0	744.7	742.6	706.7	694.0	719.4	732.9	751.1	751.5	803.1
10°	846.2	828.0	827.6	808.6	805.6	829.7	830.2	840.3	842.4	864.0	853.8
12.5°	911.3	910.1	933.3	932.9	960.0	999.7	979.9	979.9	985.8	959.6	991.7
15°	1066.6	1080.1	1036.5	1043.7	1043.7	1082.6	1081.4	1089.0	1107.2	1100.4	1086.0
17.5°	1228.1	1236.6	1188.3	1143.5	1146.9	1138.4	1168.9	1171.9	1154.5	1233.2	1215.8
20°	1332.1	1365.1	1263.6	1207.4	1218.4	1228.1	1229.4	1211.2	1202.3	1323.3	1299.6
22.5°	1460.7	1432.8	1339.7	1277.6	1294.1	1281.0	1278.4	1292.4	1304.6	1350.3	1388.8
25°	1546.5	1544.4	1432.8	1364.7	1346.5	1342.7	1368.5	1363.0	1392.2	1475.1	1451.0
27.5°	1671.3	1710.2	1512.3	1529.2	1449.3	1365.1	1448.0	1473.0	1525.4	1511.9	1565.6
30°	1913.2	1884.0	1677.2	1672.6	1582.1	1511.4	1569.0	1547.8	1642.1	1639.2	1678.9
32.5°	2110.7	2131.0	1870.9	1822.3	1755.0	1670.0	1632.0	1690.8	1741.5	1824.8	1847.2
35°	2319.6	2315.0	2069.2	1971.1	1859.9	1824.8	1871.8	1896.3	2004.1	2080.7	2027.4
37.5°	2644.4	2607.6	2326.4	2140.7	2057.4	2044.7	2125.1	2089.5	2206.3	2224.5	2254.5
40°	2946.3	2835.5	2561.5	2348.8	2216.4	2263.8	2266.3	2271.0	2333.6	2383.0	2531.5
42.5°	3233.5	3155.7	2800.4	2640.6	2445.6	2399.5	2428.3	2438.0	2596.2	2697.3	2902.8
45°	3625.9	3417.5	3143.8	2979.7	2761.5	2702.8	2682.5	2766.2	2918.9	3148.9	3325.3
47.5°	3957.9	3769.7	3508.8	3292.7	3048.7	3216.6	3101.5	3054.6	3259.7	3544.7	3825.5
50°	4233.2	4026.0	3770.1	3645.4	3606.5	3756.2	3457.6	3463.1	3650.9	4053.1	4374.9
52.5°	4446.4	4225.2	3998.5	3935.1	4152.5	4238.7	4023.0	3990.5	4127.5	4602.8	4989.4
55°	4645.6	4410.8	4235.8	4365.2	4731.4	4741.1	4725.9	4545.3	4710.3	5191.9	5625.4
57.5°	4696.7	4443.8	4327.5	4513.2	5008.4	5393.7	5545.1	5190.7	5358.6	5727.8	6170.1
60°	4433.3	4216.7	4170.2	4422.3	5158.1	5721.4	6116.8	5904.9	5841.9	6157.8	6551.6
62.5°	3893.6	3642.4	3680.1	4030.2	5000.4	5851.2	6568.5	6733.8	6352.4	6500.0	6718.2
65°	3099.0	2859.2	2935.3	3356.6	4505.1	5894.4	6799.4	7138.5	6536.8	6596.8	6482.2
67.5°	2185.5	1967.8	2063.7	2608.4	3747.7	5342.1	6839.1	6949.9	6340.5	6320.7	5837.7
70°	1238.2	1101.7	1205.7	1659.9	2645.2	4255.6	6527.5	6381.6	5988.7	5707.0	4884.5
72.5°	568.0	521.0	570.9	845.0	1522.9	2831.7	5329.0	5461.3	5160.2	4807.9	3716.0
75°	302.0	285.5	306.6	422.1	712.6	1540.6	3786.2	4083.9	3923.7	3646.7	2424.1
77.5°	224.6	211.9	222.0	273.6	380.6	602.6	2151.3	2526.8	2587.7	2332.7	1346.1
80°	172.1	162.0	172.1	206.8	263.5	286.3	919.8	1177.8	1341.4	1083.9	535.0
82.5°	127.7	120.9	136.6	155.2	185.2	178.9	326.5	406.4	524.0	358.2	208.5
85°	101.5	93.0	99.0	105.3	118.4	98.1	149.3	167.0	176.8	148.0	77.0
87.5°	39.8	36.8	71.9	56.7	48.2	29.6	44.8	50.7	52.0	49.9	22.4
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°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	529.5	525.2	500.3	508.3	521.4	524.0	529.5	514.2	506.6	534.5	535.8
5°	683.8	661.0	649.2	650.4	642.0	628.9	648.7	661.8	666.9	687.6	695.2
7.5°	803.5	776.0	756.1	733.3	701.2	680.4	715.1	740.5	754.0	797.2	814.1
10°	856.8	834.8	830.6	801.8	801.0	800.5	798.9	790.0	819.2	814.9	826.8
12.5°	966.7	962.1	921.9	910.5	911.8	910.5	875.0	873.3	873.7	912.6	898.7
15°	1069.1	1069.9	1033.1	991.7	954.5	943.1	929.1	922.8	932.1	954.1	940.5
17.5°	1195.5	1199.8	1094.5	1028.9	979.9	978.6	945.2	905.9	962.5	976.1	961.3
20°	1277.2	1259.4	1130.0	1020.0	1006.1	968.0	926.6	872.4	921.5	954.5	963.8
22.5°	1354.5	1323.7	1163.0	1035.7	968.9	923.6	883.4	848.3	864.0	900.8	894.9
25°	1407.0	1398.5	1208.6	1073.3	967.6	866.9	812.8	790.4	798.4	855.5	850.0
27.5°	1532.2	1440.8	1200.6	1083.0	927.0	789.6	762.5	738.4	730.3	792.1	809.0
30°	1615.9	1578.3	1254.3	1067.8	875.8	726.1	686.4	681.3	683.8	754.0	758.7
32.5°	1758.0	1660.3	1342.3	1009.5	801.4	679.2	633.5	635.6	647.0	698.2	708.8
35°	1906.0	1847.6	1354.1	967.6	740.9	629.3	610.7	595.9	602.2	647.0	649.2
37.5°	2180.9	1979.2	1426.9	902.9	696.5	610.2	574.7	561.6	565.0	590.4	608.6
40°	2422.8	2243.5	1393.0	840.3	641.5	584.9	540.5	530.7	520.6	545.5	557.0
42.5°	2810.6	2432.1	1381.6	771.4	615.7	550.6	520.2	494.4	484.6	505.8	526.5
45°	3198.4	2632.1	1319.4	701.6	579.4	548.1	490.6	466.0	468.6	487.6	508.7
47.5°	3630.6	2900.7	1214.1	633.9	539.6	535.8	461.0	450.4	458.0	479.1	500.3
50°	4141.5	3185.7	1127.0	573.0	511.3	499.0	457.2	444.5	451.7	476.6	497.3
52.5°	4700.1	3498.2	1063.6	516.8	479.1	469.8	462.2	450.0	458.4	480.0	501.6
55°	5255.4	3783.7	1020.5	478.3	451.7	457.6	472.8	463.9	468.1	484.2	505.8
57.5°	5667.3	3934.2	933.8	437.3	429.2	450.4	474.1	459.3	461.8	484.2	507.5
60°	5906.6	3963.0	791.2	403.9	411.5	436.0	461.0	441.9	440.2	477.0	506.2
62.5°	5880.4	3795.9	627.6	373.4	391.2	414.4	441.1	422.9	427.6	477.9	508.7
65°	5504.9	3454.7	499.0	347.6	366.7	390.8	424.6	417.4	439.8	511.7	545.1
67.5°	4845.2	2956.1	400.9	323.5	343.8	374.7	436.0	455.0	464.8	546.4	580.6
70°	3926.6	2296.8	334.1	302.4	325.6	382.3	469.0	465.2	457.2	529.9	557.0
72.5°	2836.8	1574.5	293.9	281.7	303.2	359.5	469.8	449.5	439.4	483.8	503.3
75°	1774.9	939.3	256.7	255.4	269.0	322.2	448.7	430.5	403.0	425.0	450.4
77.5°	1013.7	480.8	216.1	227.5	235.6	279.5	401.8	385.3	360.7	370.0	395.0
80°	387.0	232.6	182.3	202.1	200.0	236.8	340.4	336.6	308.7	311.7	326.9
82.5°	182.3	130.3	151.4	173.8	162.4	188.6	276.6	275.3	250.8	227.1	239.4
85°	67.7	69.4	110.8	132.4	112.9	121.8	200.0	194.5	170.9	144.2	159.4
87.5°	15.2	25.0	54.6	68.9	39.3	37.6	80.8	70.2	67.7	40.2	42.3
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)