

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: McGRAW-EDISON

Report Number: P527994

Luminaire Tested: **GALN-SA3A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12318 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

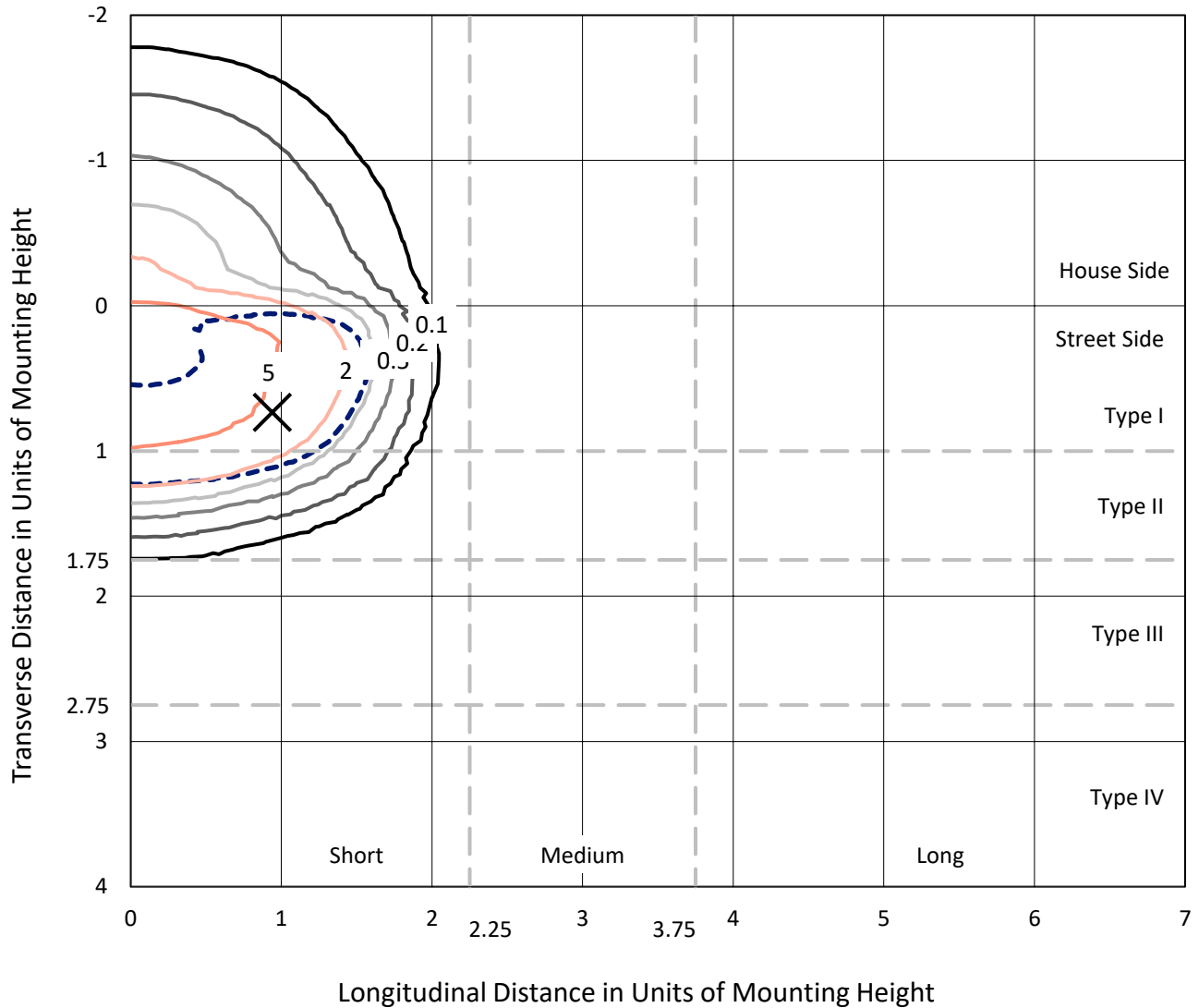
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

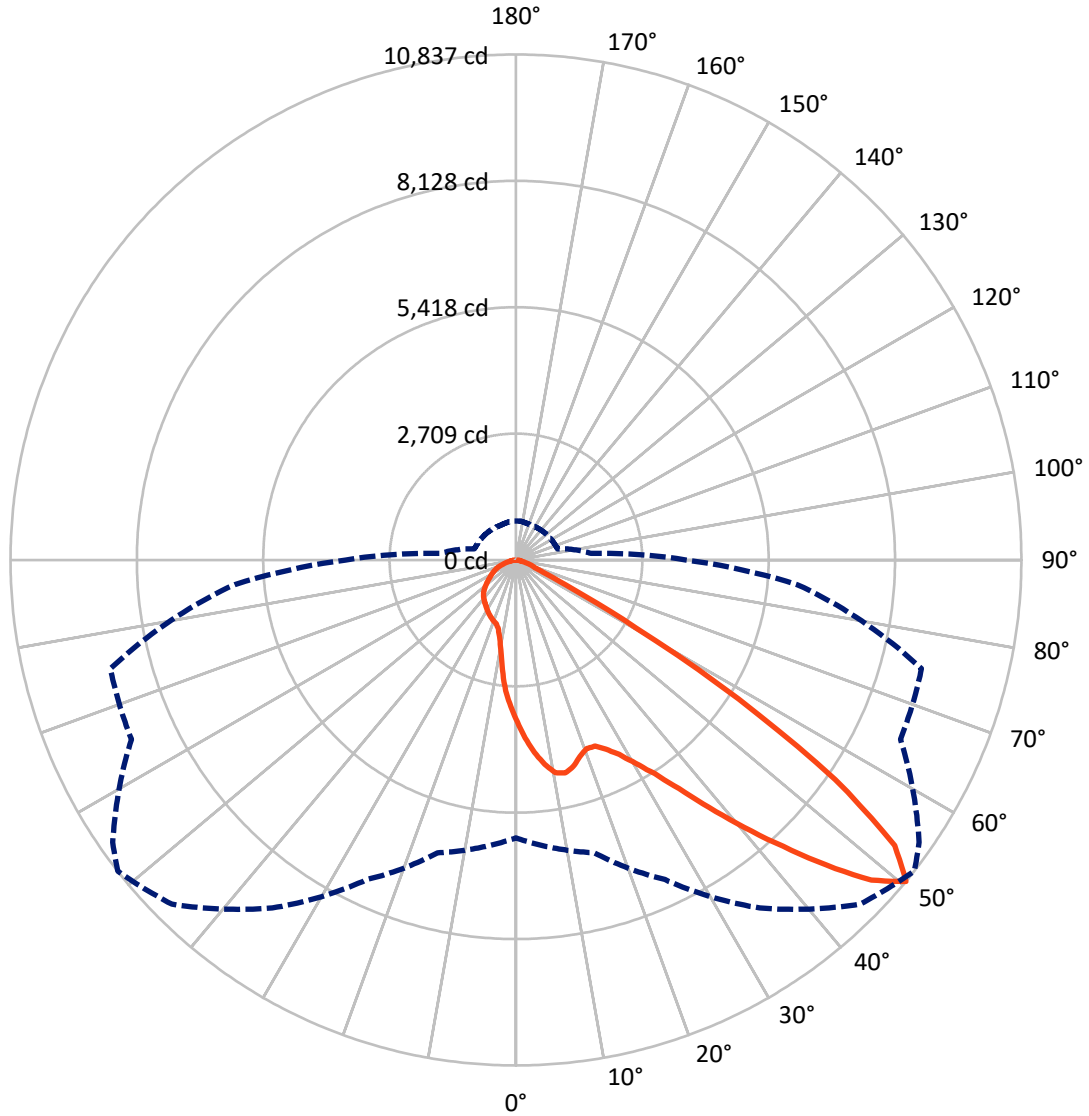
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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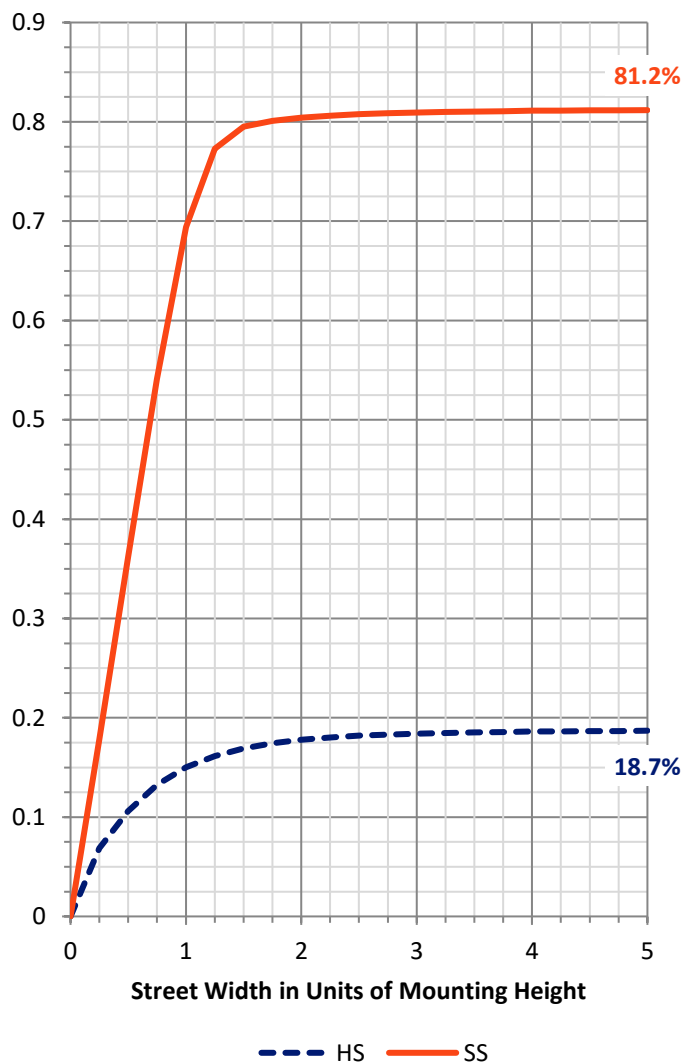
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.5	0.0	2315.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10002.5	0.0	10002.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	12318.0	0.0	12318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	2.6
10°-20°	857.8	7.0
20°-30°	1444.9	11.7
30°-40°	2424.6	19.7
40°-50°	3709.1	30.1
50°-60°	2704.2	22.0
60°-70°	601.8	4.9
70°-80°	217.1	1.8
80°-90°	38.4	0.3
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°	12318.0	100.0
0°-180°	12318.0	100.0

Coefficient of Utilization



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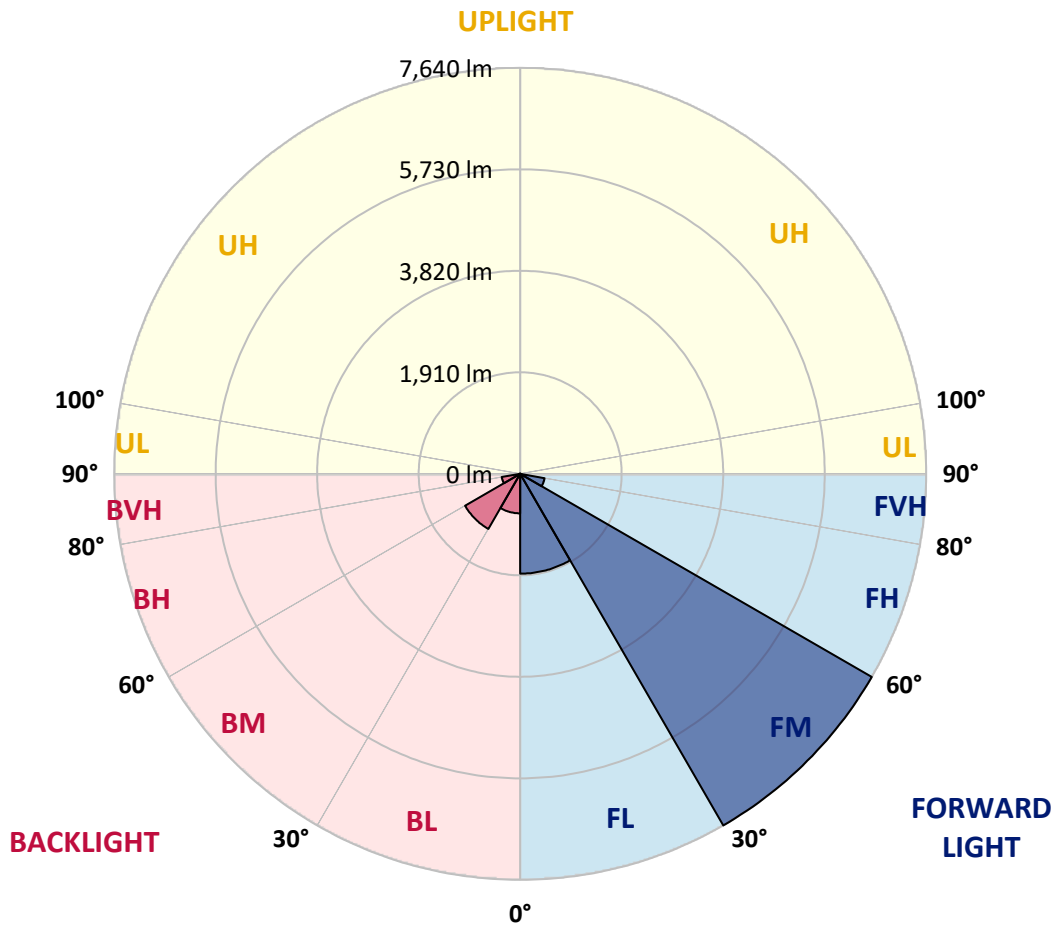
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.9	15.3			
FM (30°-60°)	7640.2	62.0			
FH (60°-80°)	466.1	3.8			G0/660
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	743.8	6.0	B2/1000		
BM (30°-60°)	1197.7	9.7	B2/2500		
BH (60°-80°)	352.8	2.9	B1/500		G1/500
BVH (80°-90°)	21.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2
2.5°	4088.3	4009.6	4018.5	3962.1	3901.3	3883.4	3821.1	3761.7	3717.2	3622.2	3534.6
5°	4468.3	4444.6	4409.0	4364.4	4318.4	4205.6	4141.7	4067.5	3904.2	3757.3	3611.8
7.5°	4523.3	4518.8	4538.1	4538.1	4554.4	4511.4	4420.8	4368.9	4195.2	3956.2	3686.0
10°	4137.3	4150.7	4244.2	4365.9	4535.1	4652.4	4637.6	4624.2	4434.2	4107.6	3773.6
12.5°	3830.0	3800.3	3855.2	3959.2	4213.0	4496.5	4688.0	4689.5	4640.5	4349.6	3837.4
15°	3656.3	3677.1	3691.9	3740.9	3932.4	4260.5	4597.5	4697.0	4912.2	4520.3	3938.4
17.5°	3767.7	3697.9	3694.9	3706.8	3804.8	4051.2	4429.7	4600.5	5060.7	4740.0	4063.1
20°	3913.1	3911.7	3870.1	3855.2	3853.8	4073.5	4319.9	4551.5	5139.3	5025.0	4189.3
22.5°	4168.5	4168.5	4100.2	4067.5	3997.8	4177.4	4334.7	4492.1	5270.0	5221.0	4250.1
25°	4596.0	4526.2	4409.0	4328.8	4288.7	4352.5	4492.1	4633.1	5384.3	5428.8	4376.3
27.5°	4990.9	4881.0	4823.1	4685.1	4631.6	4594.5	4722.2	4864.7	5517.9	5752.4	4444.6
30°	5439.2	5419.9	5316.0	5137.8	5005.7	4937.4	5054.7	5195.7	5762.8	6083.5	4601.9
32.5°	6240.8	6065.7	5924.6	5706.4	5491.2	5345.7	5461.5	5555.0	6169.6	6429.4	4774.1
35°	7106.3	7049.9	6806.4	6413.0	6083.5	5952.8	6021.1	6090.9	6643.1	6957.8	5063.6
37.5°	7956.9	7879.7	7679.3	7348.3	6947.4	6681.7	6730.7	6812.4	7174.6	7670.4	5416.9
40°	8568.5	8473.5	8372.6	8323.6	7925.7	7562.0	7533.8	7554.6	7893.1	8338.4	5808.8
42.5°	8613.1	8730.3	8761.5	8958.9	8865.4	8567.0	8393.3	8397.8	8578.9	8999.0	6205.2
45°	8519.5	8411.2	8641.3	9180.1	9488.9	9628.5	9336.0	9298.9	9003.5	9382.0	6402.6
47.5°	7538.3	7568.0	7956.9	8809.0	9701.2	10324.7	10256.4	10133.2	9230.6	9368.7	6371.5
50°	5958.8	6138.4	6499.1	7560.5	9107.4	10434.5	10836.8	10551.8	9095.5	9000.5	6053.8
52.5°	3968.1	4042.3	4279.8	5650.0	7323.0	9327.1	10168.8	10234.1	8970.8	8518.0	5651.5
55°	1766.6	1760.6	2094.6	2951.2	4594.5	7097.4	8308.7	8706.6	8491.3	8026.7	5259.6
57.5°	748.2	773.4	910.0	1275.2	2259.4	4282.8	5629.2	5978.1	6530.3	6591.2	4034.9
60°	506.2	509.2	546.3	638.3	945.6	2011.5	2952.7	3371.3	3766.2	3739.4	2140.6
62.5°	397.8	408.2	436.4	473.6	561.1	913.0	1321.2	1554.3	1579.5	1328.6	812.0
65°	339.9	341.4	369.6	400.8	439.4	531.5	636.8	648.7	656.1	632.4	596.8
67.5°	280.6	283.5	305.8	341.4	377.1	406.8	436.4	451.3	485.4	552.2	543.3
70°	222.7	227.1	246.4	276.1	308.8	326.6	363.7	377.1	408.2	460.2	481.0
72.5°	169.2	170.7	187.0	207.8	237.5	255.3	286.5	301.4	322.1	366.7	386.0
75°	121.7	126.2	138.1	148.4	152.9	164.8	194.5	210.8	240.5	259.8	261.3
77.5°	63.8	66.8	69.8	69.8	84.6	106.9	126.2	135.1	155.9	170.7	163.3
80°	25.2	26.7	34.1	46.0	59.4	77.2	90.6	95.0	112.8	121.7	126.2
82.5°	14.8	16.3	22.3	32.7	43.1	54.9	65.3	69.8	81.6	92.0	95.0
85°	7.4	8.9	13.4	20.8	28.2	34.1	32.7	31.2	31.2	29.7	31.2
87.5°	3.0	3.0	4.5	4.5	4.5	5.9	7.4	7.4	7.4	8.9	8.9
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°	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2	3472.2
2.5°	3476.7	3417.3	3362.4	3261.4	3151.6	3120.4	2992.7	2946.7	2914.1	2875.5	2863.6
5°	3494.5	3415.8	3239.2	3035.8	2874.0	2666.2	2529.6	2382.6	2275.7	2249.0	2241.6
7.5°	3531.6	3396.5	3092.2	2784.9	2453.9	2171.8	1956.6	1840.8	1738.3	1732.4	1722.0
10°	3573.2	3338.6	2931.9	2449.4	2026.3	1765.1	1635.9	1585.4	1560.2	1554.3	1551.3
12.5°	3607.3	3326.8	2752.3	2122.8	1723.5	1566.1	1527.5	1523.1	1533.5	1536.5	1542.4
15°	3622.2	3279.3	2535.5	1830.4	1535.0	1477.1	1493.4	1511.2	1518.6	1537.9	1523.1
17.5°	3650.4	3218.4	2268.3	1598.8	1429.6	1440.0	1468.2	1489.0	1500.8	1514.2	1494.9
20°	3665.2	3163.5	2017.4	1460.7	1392.5	1411.8	1450.4	1466.7	1481.5	1487.5	1465.2
22.5°	3651.9	3050.6	1796.2	1349.4	1356.8	1382.1	1416.2	1434.0	1425.1	1401.4	1388.0
25°	3616.2	2891.8	1566.1	1278.2	1306.4	1350.9	1377.6	1364.3	1347.9	1334.6	1330.1
27.5°	3614.8	2697.3	1399.9	1212.8	1263.3	1324.2	1315.3	1303.4	1310.8	1300.4	1288.5
30°	3622.2	2508.8	1263.3	1175.7	1232.1	1261.8	1272.2	1260.3	1269.2	1249.9	1255.9
32.5°	3583.6	2324.7	1174.2	1132.7	1195.0	1193.5	1227.7	1236.6	1215.8	1175.7	1181.7
35°	3599.9	2176.3	1098.5	1113.4	1153.5	1153.5	1180.2	1169.8	1114.9	1091.1	1097.0
37.5°	3712.7	2030.8	1061.4	1086.7	1113.4	1125.2	1116.3	1071.8	1058.4	1058.4	1061.4
40°	3819.6	1906.1	1039.1	1080.7	1076.3	1083.7	1018.4	1022.8	1022.8	1024.3	1016.9
42.5°	3914.6	1821.5	1021.3	1045.1	1052.5	1013.9	973.8	969.4	979.8	978.3	972.3
45°	3948.8	1751.7	996.1	1005.0	1010.9	947.1	927.8	918.9	930.8	935.2	941.2
47.5°	3818.1	1693.8	967.9	950.1	938.2	896.6	871.4	855.1	869.9	895.2	901.1
50°	3650.4	1618.1	923.4	889.2	864.0	846.2	828.3	812.0	822.4	840.2	835.8
52.5°	3402.5	1499.3	866.9	831.3	788.3	792.7	776.4	767.5	773.4	773.4	769.0
55°	3049.2	1232.1	771.9	746.7	711.1	723.0	725.9	714.0	702.2	712.6	703.7
57.5°	2081.3	869.9	688.8	688.8	653.2	669.5	668.0	639.8	611.6	614.6	608.6
60°	1203.9	693.3	635.4	629.4	592.3	605.7	608.6	589.3	546.3	549.3	543.3
62.5°	684.4	592.3	555.2	546.3	538.9	550.7	550.7	525.5	488.4	491.4	485.4
65°	581.9	549.3	495.8	494.3	491.4	494.3	482.5	455.7	423.1	409.7	411.2
67.5°	528.5	507.7	455.7	442.4	433.5	432.0	409.7	384.5	369.6	357.8	356.3
70°	463.2	446.8	408.2	390.4	381.5	360.7	338.5	322.1	301.4	295.4	301.4
72.5°	366.7	365.2	350.3	331.0	311.7	295.4	276.1	253.8	234.6	230.1	219.7
75°	253.8	256.8	259.8	256.8	240.5	219.7	197.4	179.6	155.9	142.5	139.5
77.5°	166.3	170.7	175.2	169.2	158.8	139.5	124.7	102.4	84.6	74.2	72.7
80°	121.7	127.7	130.6	126.2	114.3	99.5	83.1	65.3	52.0	43.1	43.1
82.5°	93.5	99.5	102.4	95.0	83.1	71.3	59.4	46.0	35.6	28.2	26.7
85°	32.7	31.2	37.1	38.6	46.0	43.1	35.6	26.7	20.8	14.8	13.4
87.5°	8.9	8.9	10.4	10.4	8.9	7.4	7.4	7.4	5.9	4.5	4.5
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)