

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: P530896

Luminaire Tested: **GALN-SA6A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16997 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

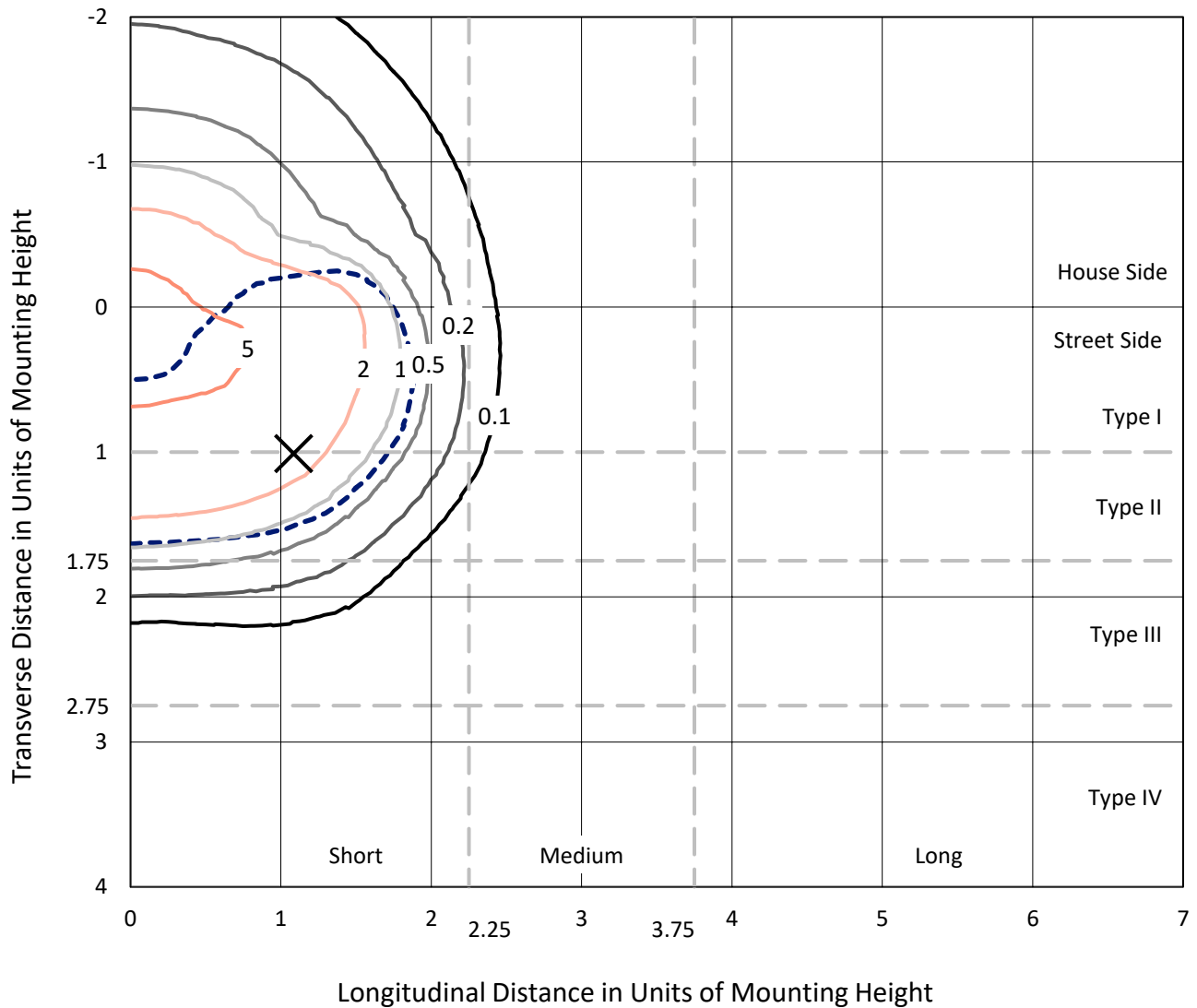
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

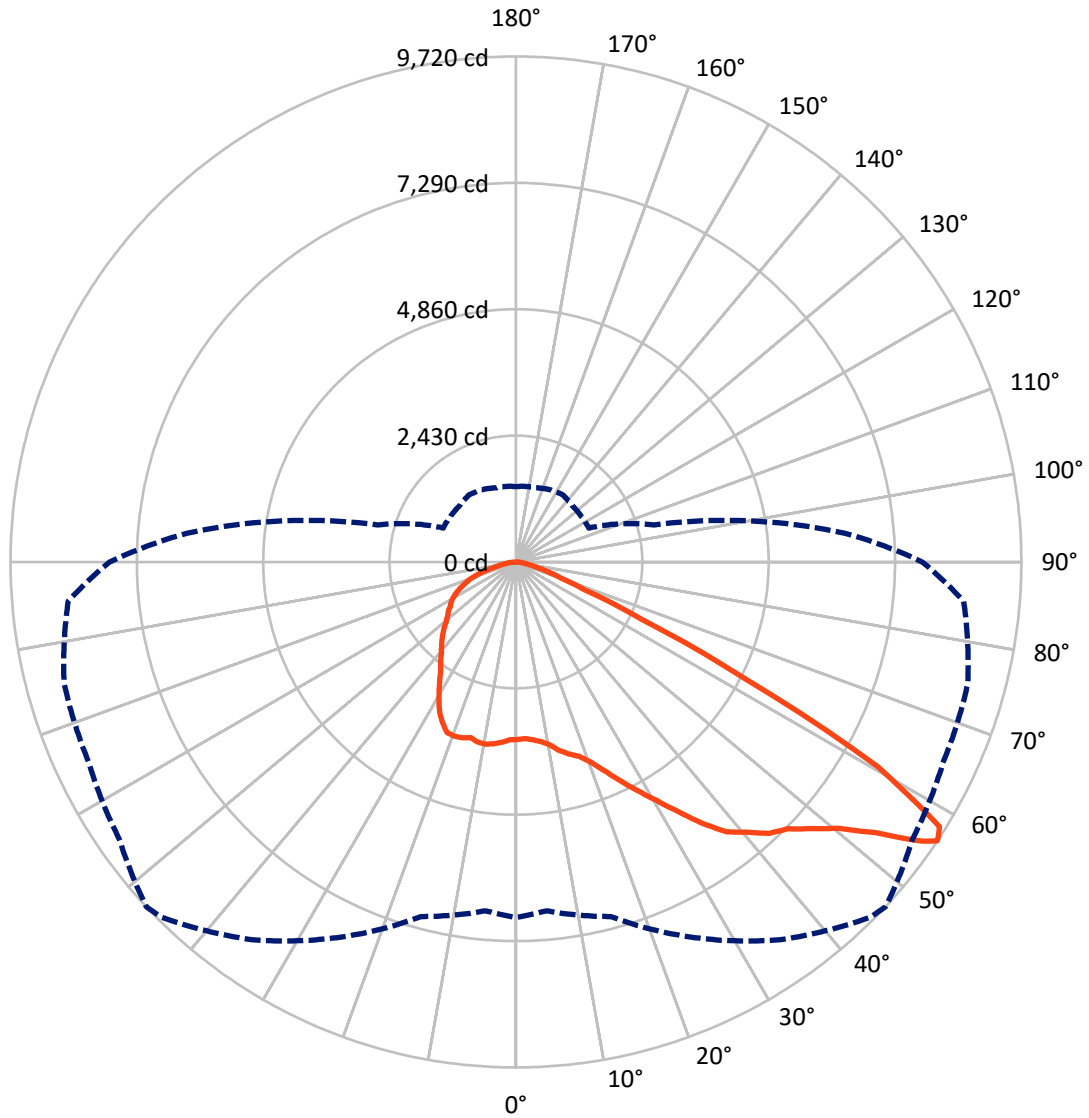
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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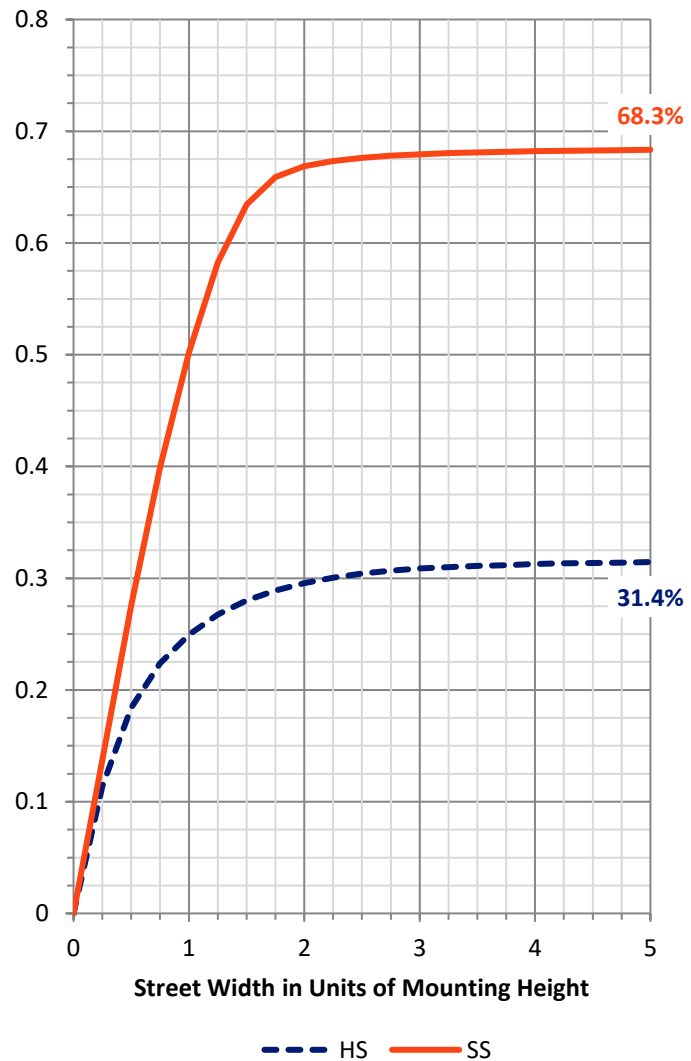
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5386.1	0.0	5386.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11610.9	0.0	11610.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	16997.0	0.0	16997.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	2.0
10°-20°	1049.4	6.2
20°-30°	1855.1	10.9
30°-40°	2786.3	16.4
40°-50°	3823.9	22.5
50°-60°	4555.6	26.8
60°-70°	1949.5	11.5
70°-80°	551.7	3.2
80°-90°	92.8	0.5
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°	16997.0	100.0
0°-180°	16997.0	100.0



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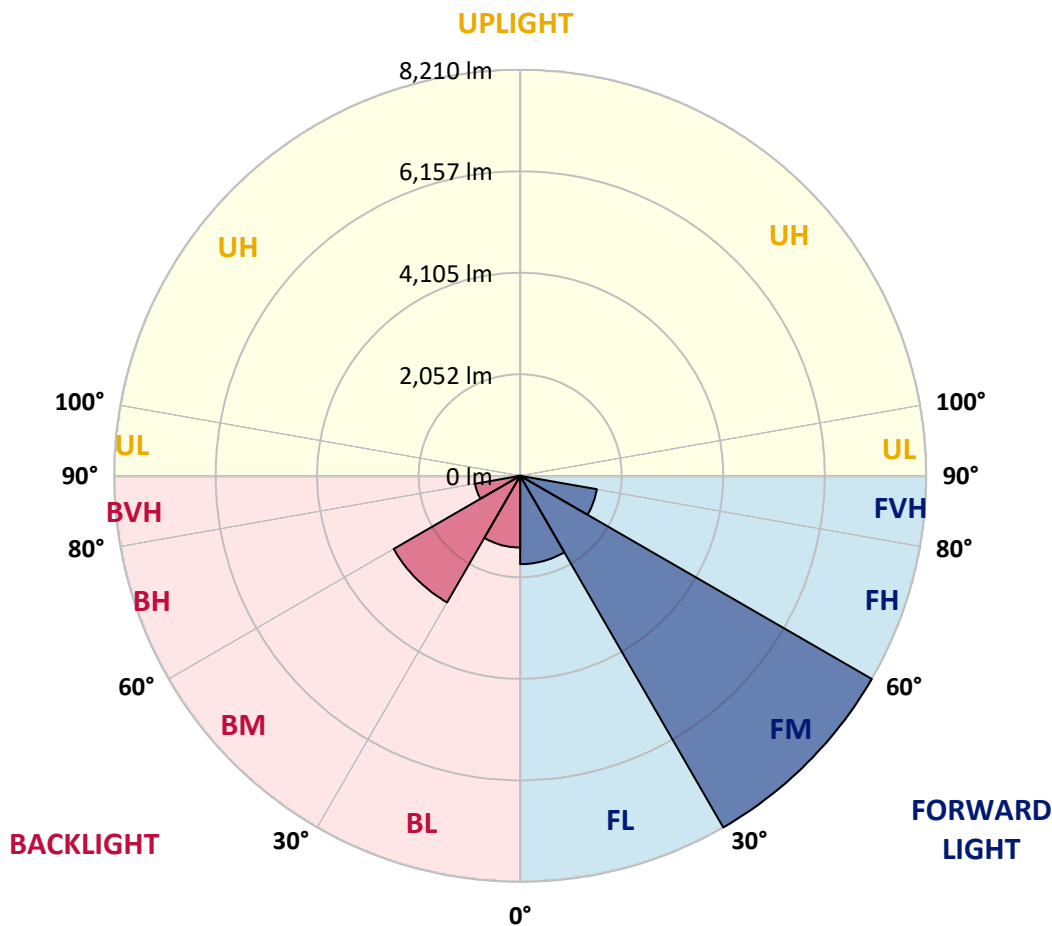
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.0	10.5			
FM (30°-60°)	8209.9	48.3			
FH (60°-80°)	1574.5	9.3			G1/1800
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1450.2	8.5	B3/2500		
BM (30°-60°)	2955.8	17.4	B3/5000		
BH (60°-80°)	926.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	53.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2
2.5°	3401.2	3394.7	3390.3	3425.0	3412.0	3414.2	3401.2	3414.2	3422.9	3403.3	3431.5
5°	3394.7	3414.2	3396.8	3407.7	3435.9	3427.2	3435.9	3461.9	3455.4	3448.9	3440.2
7.5°	3455.4	3457.5	3470.5	3474.9	3483.5	3474.9	3487.9	3511.7	3505.2	3468.4	3472.7
10°	3542.1	3546.4	3548.6	3572.4	3587.6	3589.8	3574.6	3552.9	3550.7	3600.6	3565.9
12.5°	3641.8	3631.0	3657.0	3665.6	3683.0	3702.5	3722.0	3676.5	3704.7	3706.8	3665.6
15°	3787.0	3797.9	3767.5	3767.5	3774.0	3776.2	3830.4	3808.7	3804.4	3780.5	3797.9
17.5°	4003.8	3930.1	3927.9	3897.6	3893.3	3910.6	3930.1	3947.4	4006.0	3958.3	3865.1
20°	4162.0	4179.4	4116.5	4079.7	4086.2	4125.2	4105.7	4183.7	4224.9	4146.9	4055.8
22.5°	4441.7	4383.2	4398.3	4316.0	4322.5	4363.6	4361.5	4441.7	4465.5	4342.0	4209.7
25°	4630.3	4615.1	4628.1	4563.1	4571.8	4604.3	4656.3	4788.5	4749.5	4612.9	4307.3
27.5°	4905.6	4875.2	4864.4	4840.5	4831.9	4918.6	4979.3	5120.2	5092.0	4892.6	4480.7
30°	5187.4	5167.9	5178.7	5081.2	5115.9	5300.1	5317.5	5510.4	5497.4	5146.2	4673.6
32.5°	5382.5	5393.3	5412.8	5358.6	5512.5	5660.0	5718.5	5937.4	5948.3	5581.9	5046.5
35°	5696.8	5660.0	5670.8	5733.7	5805.2	6074.0	6169.4	6314.6	6405.7	6039.3	5404.2
37.5°	5894.1	5933.1	5887.6	5987.3	6173.7	6496.7	6583.4	6733.0	6828.4	6490.2	5891.9
40°	6201.9	6139.0	6171.5	6243.1	6433.8	6854.4	6830.5	6984.4	7014.8	6873.9	6347.1
42.5°	6533.5	6503.2	6457.7	6620.3	6780.7	7086.3	7134.0	7062.5	7216.4	7248.9	6997.4
45°	6930.2	6967.1	6973.6	6977.9	7118.8	7385.5	7320.4	7257.6	7435.3	7671.6	7400.6
47.5°	7298.8	7181.7	7266.2	7383.3	7582.7	7584.9	7660.8	7511.2	7699.8	7910.1	7764.8
50°	7422.3	7366.0	7478.7	7699.8	8007.6	8040.1	8048.8	7836.4	7933.9	8100.8	7890.6
52.5°	7374.6	7355.1	7643.4	7985.9	8436.8	8601.6	8644.9	8382.6	8436.8	8360.9	8168.0
55°	7147.0	7205.5	7496.0	8194.0	8885.5	9395.0	9477.3	9145.7	8801.0	8859.5	8647.1
56°	6834.9	6733.0	7058.1	7957.8	8866.0	9652.9	9720.1	9306.1	9072.0	8996.1	8642.8
57.5°	5798.7	5666.5	6093.5	7160.0	8374.0	9555.4	9605.2	9373.3	9026.4	8872.5	8011.9
60°	3394.7	3459.7	4001.6	4938.1	6459.8	7834.2	8001.1	8170.2	7938.2	7248.9	5963.4
62.5°	1638.8	1597.6	1985.6	2831.1	3936.6	5001.0	4951.1	5425.8	5686.0	5150.5	3765.4
65°	858.4	854.1	1083.9	1545.6	2163.4	2627.3	2672.8	2928.6	3286.3	2653.3	1911.9
67.5°	630.8	648.2	763.0	1086.0	1391.7	1419.9	1413.4	1541.3	1575.9	1333.2	1174.9
70°	494.2	502.9	587.5	825.9	1036.2	927.8	908.3	923.5	1025.3	1068.7	1016.7
72.5°	357.7	366.3	437.9	557.1	648.2	633.0	646.0	730.5	856.3	901.8	847.6
75°	238.5	245.0	284.0	340.3	383.7	414.0	437.9	535.4	652.5	678.5	652.5
77.5°	164.7	171.3	197.3	240.6	245.0	264.5	273.1	318.7	390.2	422.7	405.4
80°	93.2	93.2	106.2	123.6	151.7	177.8	182.1	218.9	251.5	273.1	277.5
82.5°	43.4	45.5	56.4	75.9	99.7	123.6	127.9	151.7	175.6	197.3	203.8
85°	21.7	23.8	32.5	45.5	60.7	73.7	71.5	73.7	78.0	73.7	75.9
87.5°	6.5	6.5	8.7	10.8	8.7	10.8	10.8	13.0	15.2	17.3	19.5
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°	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2	3414.2
2.5°	3433.7	3440.2	3396.8	3438.0	3422.9	3420.7	3451.0	3446.7	3457.5	3453.2	3427.2
5°	3435.9	3420.7	3466.2	3425.0	3444.5	3485.7	3457.5	3522.6	3490.1	3511.7	3464.0
7.5°	3503.1	3507.4	3498.7	3516.1	3507.4	3526.9	3511.7	3526.9	3500.9	3503.1	3546.4
10°	3561.6	3548.6	3563.8	3542.1	3557.3	3550.7	3516.1	3505.2	3513.9	3503.1	3531.2
12.5°	3670.0	3646.1	3635.3	3609.3	3591.9	3526.9	3472.7	3442.4	3483.5	3490.1	3477.0
15°	3780.5	3782.7	3732.8	3674.3	3565.9	3468.4	3481.4	3492.2	3492.2	3509.6	3477.0
17.5°	3849.9	3849.9	3804.4	3687.3	3576.8	3520.4	3507.4	3472.7	3442.4	3438.0	3435.9
20°	3971.3	3934.4	3830.4	3685.1	3572.4	3546.4	3448.9	3366.5	3303.6	3281.9	3279.8
22.5°	4110.0	4016.8	3871.6	3689.5	3565.9	3529.1	3347.0	3223.4	3110.7	3063.0	3069.5
25°	4237.9	4088.3	3895.4	3670.0	3542.1	3364.3	3160.6	2989.3	2872.2	2833.2	2813.7
27.5°	4326.8	4164.2	3895.4	3687.3	3453.2	3180.1	2972.0	2753.0	2651.1	2625.1	2629.5
30°	4446.0	4259.6	3962.6	3650.5	3275.4	2941.6	2692.3	2549.3	2488.6	2466.9	2482.1
32.5°	4725.7	4508.9	4055.8	3561.6	3065.2	2703.2	2501.6	2421.4	2332.5	2289.1	2274.0
35°	5029.1	4745.2	4146.9	3412.0	2828.9	2486.4	2360.7	2287.0	2180.7	2133.1	2141.7
37.5°	5458.4	5048.7	4153.4	3164.9	2573.1	2365.0	2250.1	2135.2	2048.5	1974.8	1953.1
40°	6037.1	5462.7	4138.2	2904.8	2367.2	2221.9	2137.4	1994.3	1896.8	1844.7	1855.6
42.5°	6546.6	5948.3	4075.3	2610.0	2180.7	2124.4	2029.0	1888.1	1792.7	1738.5	1734.2
45°	6975.8	6305.9	3956.1	2358.5	2024.7	2016.0	1905.4	1797.1	1721.2	1671.3	1693.0
47.5°	7372.5	6594.2	3776.2	2107.0	1881.6	1898.9	1792.7	1725.5	1677.8	1632.3	1630.1
50°	7515.5	6589.9	3617.9	1898.9	1766.7	1758.0	1753.7	1682.2	1632.3	1593.3	1610.6
52.5°	7754.0	6663.6	3446.7	1755.9	1662.7	1664.8	1680.0	1628.0	1571.6	1547.8	1569.4
55°	8096.5	6674.5	3069.5	1588.9	1575.9	1591.1	1591.1	1556.4	1508.7	1489.2	1478.4
56°	7816.8	6351.5	2753.0	1545.6	1532.6	1532.6	1573.8	1534.8	1476.2	1461.1	1448.0
57.5°	7209.9	5564.6	2304.3	1493.6	1474.1	1504.4	1526.1	1484.9	1430.7	1409.0	1422.0
60°	4972.8	3765.4	1732.0	1380.8	1380.8	1430.7	1448.0	1387.3	1363.5	1361.3	1344.0
62.5°	2902.6	2193.7	1354.8	1279.0	1283.3	1324.5	1337.5	1302.8	1272.5	1309.3	1326.7
65°	1539.1	1309.3	1161.9	1170.6	1172.7	1205.3	1261.6	1259.5	1257.3	1268.1	1270.3
67.5°	1114.2	1088.2	1055.7	1047.0	1051.4	1075.2	1131.6	1174.9	1172.7	1146.7	1127.2
70°	992.8	956.0	936.5	938.6	921.3	949.5	995.0	1023.2	973.3	943.0	930.0
72.5°	825.9	815.1	802.1	804.2	769.5	763.0	711.0	711.0	698.0	689.3	704.5
75°	630.8	626.5	633.0	622.1	585.3	546.3	515.9	487.7	444.4	427.0	418.4
77.5°	398.9	411.9	427.0	403.2	388.0	359.8	329.5	301.3	266.6	247.1	247.1
80°	271.0	281.8	292.6	288.3	271.0	245.0	221.1	190.8	166.9	151.7	149.6
82.5°	205.9	214.6	229.8	212.4	195.1	173.4	153.9	132.2	110.6	93.2	93.2
85°	73.7	84.5	93.2	101.9	108.4	110.6	95.4	78.0	62.9	49.9	47.7
87.5°	19.5	21.7	23.8	21.7	21.7	21.7	23.8	21.7	19.5	15.2	15.2
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)