

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: P528400

Luminaire Tested: **GALN-SA3C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528400
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-SA3C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 14965 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

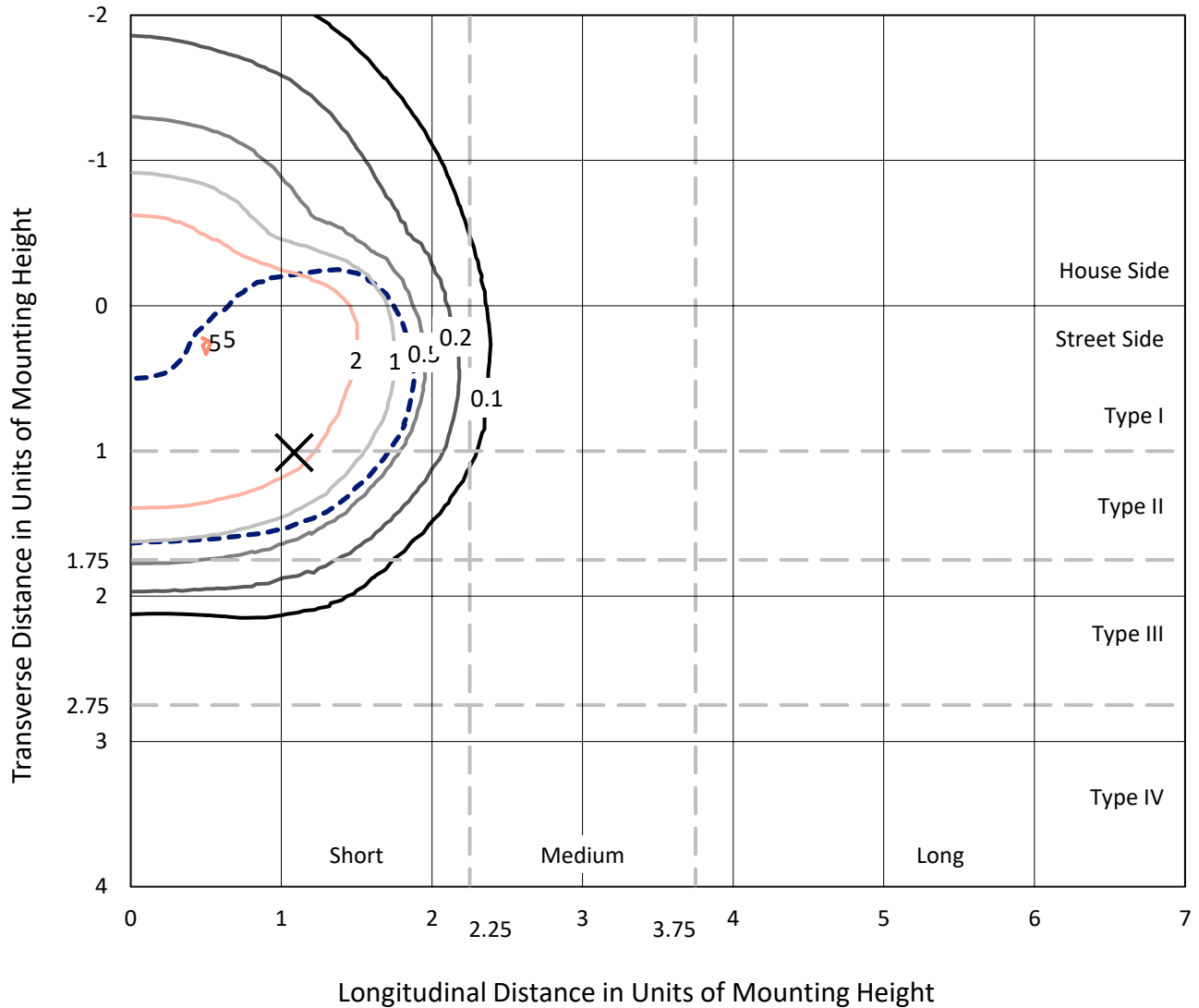
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

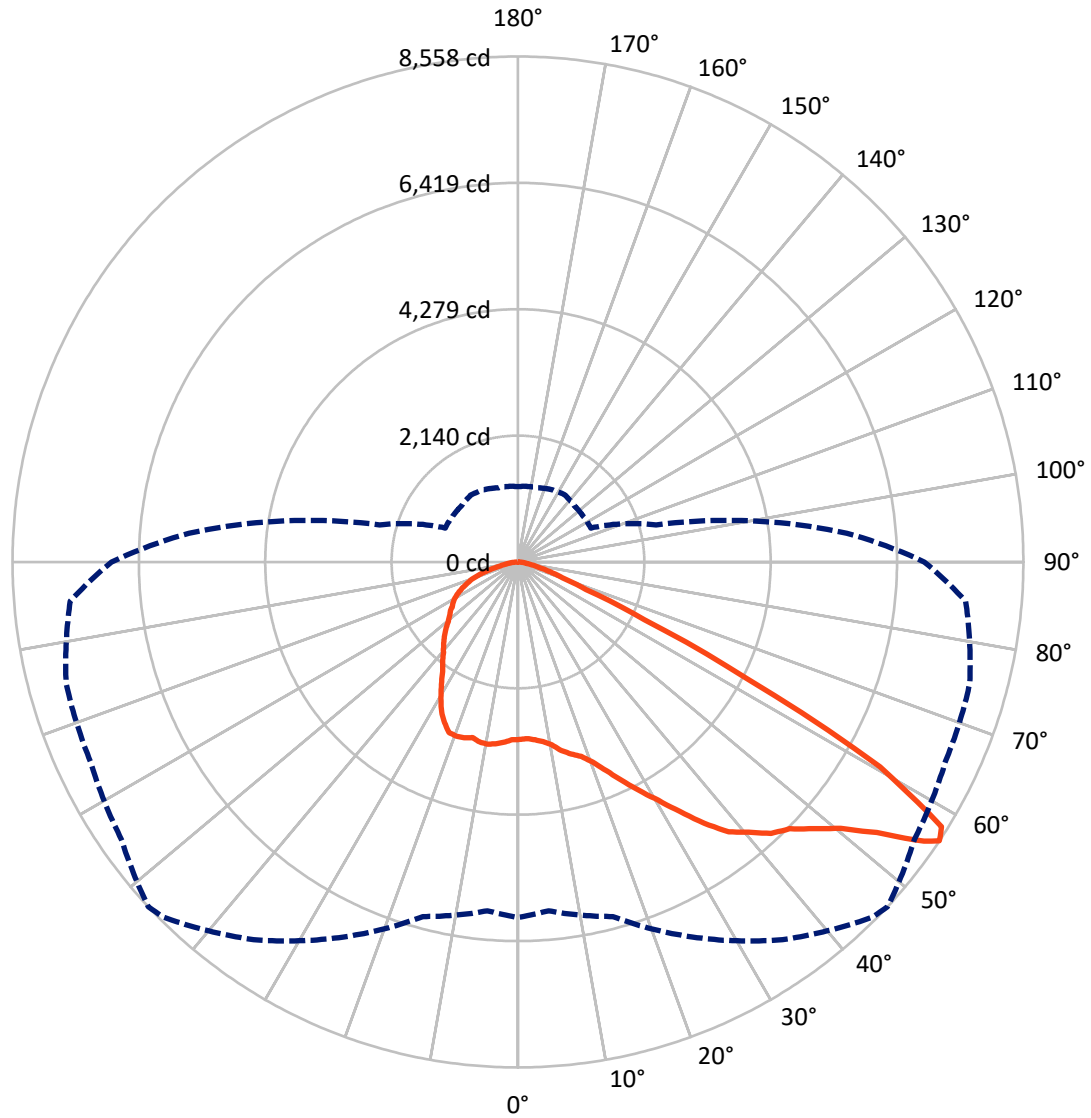
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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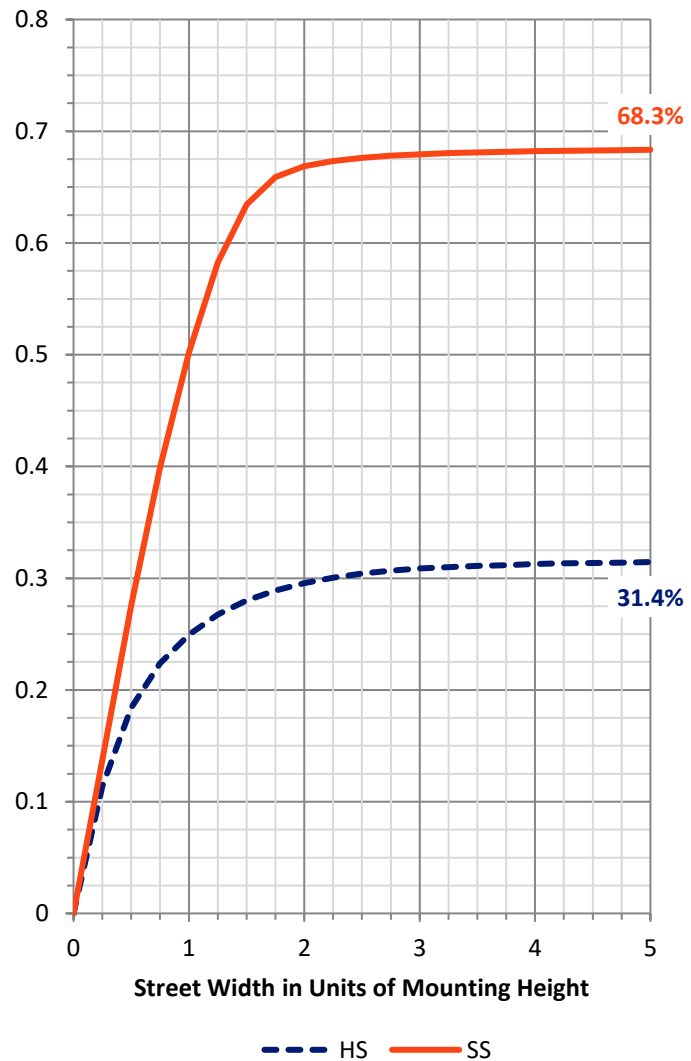
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4742.2	0.0	4742.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10222.8	0.0	10222.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	14965.0	0.0	14965.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	2.0
10°-20°	923.9	6.2
20°-30°	1633.3	10.9
30°-40°	2453.2	16.4
40°-50°	3366.7	22.5
50°-60°	4011.0	26.8
60°-70°	1716.5	11.5
70°-80°	485.8	3.2
80°-90°	81.7	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°	14965.0	100.0
0°-180°	14965.0	100.0



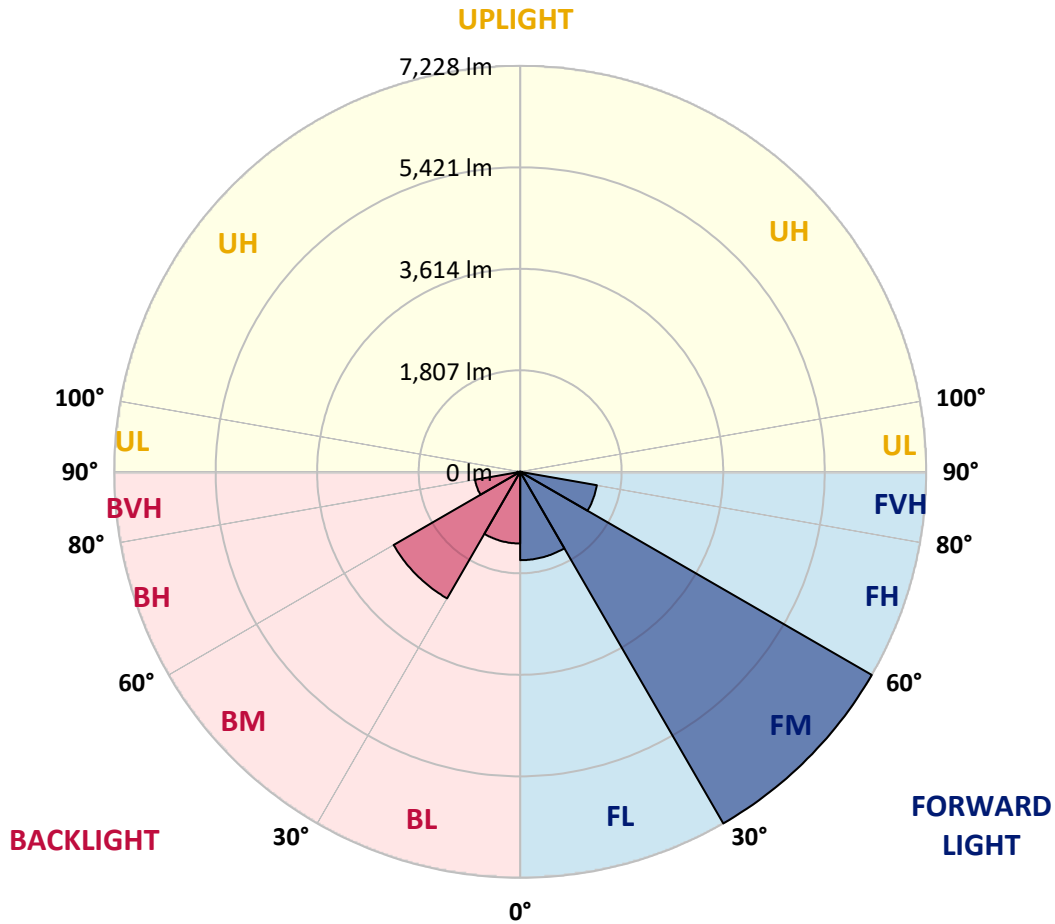
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.3	10.5			
FM (30°-60°)	7228.4	48.3			
FH (60°-80°)	1386.3	9.3			G1/1800
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1276.8	8.5	B3/2500		
BM (30°-60°)	2602.4	17.4	B3/5000		
BH (60°-80°)	815.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	47.1	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°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	2994.6	2988.8	2985.0	3015.6	3004.1	3006.0	2994.6	3006.0	3013.6	2996.5	3021.3
5°	2988.8	3006.0	2990.7	3000.3	3025.1	3017.5	3025.1	3048.0	3042.3	3036.6	3028.9
7.5°	3042.3	3044.2	3055.6	3059.5	3067.1	3059.5	3070.9	3091.9	3086.2	3053.7	3057.5
10°	3118.6	3122.4	3124.3	3145.3	3158.7	3160.6	3147.2	3128.2	3126.3	3170.2	3139.6
12.5°	3206.4	3196.9	3219.8	3227.4	3242.7	3259.9	3277.0	3237.0	3261.8	3263.7	3227.4
15°	3334.3	3343.8	3317.1	3317.1	3322.8	3324.7	3372.5	3353.4	3349.6	3328.6	3343.8
17.5°	3525.1	3460.3	3458.3	3431.6	3427.8	3443.1	3460.3	3475.5	3527.1	3485.1	3403.0
20°	3664.5	3679.7	3624.4	3591.9	3597.7	3632.0	3614.9	3683.6	3719.8	3651.1	3571.0
22.5°	3910.7	3859.1	3872.5	3800.0	3805.7	3842.0	3840.1	3910.7	3931.7	3822.9	3706.5
25°	4076.7	4063.4	4074.8	4017.6	4025.2	4053.8	4099.6	4216.1	4181.7	4061.5	3792.3
27.5°	4319.1	4292.4	4282.9	4261.9	4254.2	4330.6	4384.0	4508.1	4483.3	4307.7	3945.0
30°	4567.2	4550.1	4559.6	4473.7	4504.2	4666.5	4681.7	4851.6	4840.2	4531.0	4114.9
32.5°	4739.0	4748.5	4765.7	4718.0	4853.5	4983.3	5034.8	5227.6	5237.1	4914.6	4443.2
35°	5015.7	4983.3	4992.8	5048.2	5111.2	5347.8	5431.8	5559.7	5639.9	5317.3	4758.1
37.5°	5189.4	5223.8	5183.7	5271.5	5435.6	5720.0	5796.4	5928.1	6012.0	5714.3	5187.5
40°	5460.4	5405.1	5433.7	5496.7	5664.7	6034.9	6013.9	6149.4	6176.2	6052.1	5588.3
42.5°	5752.5	5725.7	5685.7	5828.8	5970.0	6239.1	6281.1	6218.2	6353.7	6382.3	6160.9
45°	6101.7	6134.2	6139.9	6143.7	6267.8	6502.5	6445.3	6389.9	6546.4	6754.5	6515.9
47.5°	6426.2	6323.1	6397.6	6500.6	6676.2	6678.1	6744.9	6613.2	6779.3	6964.4	6836.5
50°	6535.0	6485.4	6584.6	6779.3	7050.3	7078.9	7086.6	6899.5	6985.4	7132.4	6947.2
52.5°	6493.0	6475.8	6729.7	7031.2	7428.2	7573.2	7611.4	7380.5	7428.2	7361.4	7191.5
55°	6292.6	6344.1	6599.9	7214.4	7823.3	8271.8	8344.3	8052.3	7748.8	7800.4	7613.3
56°	6017.8	5928.1	6214.3	7006.4	7806.1	8498.9	8558.1	8193.5	7987.4	7920.6	7609.5
57.5°	5105.5	4989.0	5365.0	6304.0	7372.8	8413.0	8456.9	8252.7	7947.3	7811.8	7054.1
60°	2988.8	3046.1	3523.2	4347.7	5687.6	6897.6	7044.6	7193.4	6989.2	6382.3	5250.5
62.5°	1442.9	1406.6	1748.3	2492.6	3466.0	4403.1	4359.2	4777.2	5006.2	4534.8	3315.2
65°	755.8	752.0	954.3	1360.8	1904.8	2313.2	2353.3	2578.5	2893.4	2336.1	1683.4
67.5°	555.4	570.7	671.8	956.2	1225.3	1250.1	1244.4	1357.0	1387.5	1173.8	1034.5
70°	435.2	442.8	517.2	727.2	912.3	816.9	799.7	813.1	902.8	940.9	895.1
72.5°	314.9	322.6	385.5	490.5	570.7	557.3	568.8	643.2	753.9	794.0	746.3
75°	209.9	215.7	250.0	299.6	337.8	364.5	385.5	471.4	574.5	597.4	574.5
77.5°	145.1	150.8	173.7	211.9	215.7	232.8	240.5	280.6	343.5	372.2	356.9
80°	82.1	82.1	93.5	108.8	133.6	156.5	160.3	192.8	221.4	240.5	244.3
82.5°	38.2	40.1	49.6	66.8	87.8	108.8	112.6	133.6	154.6	173.7	179.4
85°	19.1	21.0	28.6	40.1	53.4	64.9	63.0	64.9	68.7	64.9	66.8
87.5°	5.7	5.7	7.6	9.5	7.6	9.5	9.5	11.5	13.4	15.3	17.2
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°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	3023.2	3028.9	2990.7	3027.0	3013.6	3011.7	3038.5	3034.6	3044.2	3040.4	3017.5
5°	3025.1	3011.7	3051.8	3015.6	3032.7	3069.0	3044.2	3101.4	3072.8	3091.9	3049.9
7.5°	3084.3	3088.1	3080.4	3095.7	3088.1	3105.3	3091.9	3105.3	3082.4	3084.3	3122.4
10°	3135.8	3124.3	3137.7	3118.6	3132.0	3126.3	3095.7	3086.2	3093.8	3084.3	3109.1
12.5°	3231.2	3210.2	3200.7	3177.8	3162.5	3105.3	3057.5	3030.8	3067.1	3072.8	3061.4
15°	3328.6	3330.5	3286.6	3235.0	3139.6	3053.7	3065.2	3074.7	3074.7	3090.0	3061.4
17.5°	3389.6	3389.6	3349.6	3246.5	3149.2	3099.5	3088.1	3057.5	3030.8	3027.0	3025.1
20°	3496.5	3464.1	3372.5	3244.6	3145.3	3122.4	3036.6	2964.0	2908.7	2889.6	2887.7
22.5°	3618.7	3536.6	3408.7	3248.4	3139.6	3107.2	2946.8	2838.1	2738.8	2696.8	2702.5
25°	3731.3	3599.6	3429.7	3231.2	3118.6	2962.1	2782.7	2631.9	2528.9	2494.5	2477.3
27.5°	3809.5	3666.4	3429.7	3246.5	3040.4	2799.9	2616.7	2423.9	2334.2	2311.3	2315.1
30°	3914.5	3750.4	3488.9	3214.0	2883.9	2589.9	2370.5	2244.5	2191.1	2172.0	2185.3
32.5°	4160.7	3969.8	3571.0	3135.8	2698.7	2380.0	2202.5	2131.9	2053.6	2015.5	2002.1
35°	4427.9	4177.9	3651.1	3004.1	2490.7	2189.1	2078.4	2013.6	1920.0	1878.0	1885.7
37.5°	4805.8	4445.1	3656.8	2786.5	2265.5	2082.3	1981.1	1880.0	1803.6	1738.7	1719.6
40°	5315.4	4809.6	3643.5	2557.5	2084.2	1956.3	1881.9	1755.9	1670.0	1624.2	1633.7
42.5°	5763.9	5237.1	3588.1	2297.9	1920.0	1870.4	1786.4	1662.4	1578.4	1530.7	1526.9
45°	6141.8	5552.1	3483.2	2076.5	1782.6	1775.0	1677.6	1582.2	1515.4	1471.5	1490.6
47.5°	6491.1	5805.9	3324.7	1855.1	1656.6	1671.9	1578.4	1519.2	1477.2	1437.2	1435.3
50°	6617.0	5802.1	3185.4	1671.9	1555.5	1547.9	1544.0	1481.1	1437.2	1402.8	1418.1
52.5°	6827.0	5867.0	3034.6	1545.9	1463.9	1465.8	1479.1	1433.3	1383.7	1362.7	1381.8
55°	7128.5	5876.5	2702.5	1399.0	1387.5	1400.9	1400.9	1370.4	1328.4	1311.2	1301.7
56°	6882.3	5592.1	2423.9	1360.8	1349.4	1349.4	1385.6	1351.3	1299.7	1286.4	1274.9
57.5°	6347.9	4899.3	2028.8	1315.0	1297.8	1324.6	1343.6	1307.4	1259.7	1240.6	1252.0
60°	4378.3	3315.2	1525.0	1215.8	1215.8	1259.7	1274.9	1221.5	1200.5	1198.6	1183.3
62.5°	2555.6	1931.5	1192.9	1126.1	1129.9	1166.1	1177.6	1147.1	1120.3	1152.8	1168.1
65°	1355.1	1152.8	1023.0	1030.6	1032.5	1061.2	1110.8	1108.9	1107.0	1116.5	1118.4
67.5°	981.0	958.1	929.5	921.8	925.7	946.7	996.3	1034.5	1032.5	1009.6	992.5
70°	874.1	841.7	824.5	826.4	811.1	836.0	876.0	900.8	857.0	830.2	818.8
72.5°	727.2	717.6	706.2	708.1	677.5	671.8	626.0	626.0	614.6	606.9	620.3
75°	555.4	551.6	557.3	547.8	515.3	481.0	454.2	429.4	391.3	376.0	368.4
77.5°	351.2	362.6	376.0	355.0	341.6	316.8	290.1	265.3	234.8	217.6	217.6
80°	238.6	248.1	257.7	253.8	238.6	215.7	194.7	168.0	147.0	133.6	131.7
82.5°	181.3	188.9	202.3	187.0	171.8	152.7	135.5	116.4	97.3	82.1	82.1
85°	64.9	74.4	82.1	89.7	95.4	97.3	84.0	68.7	55.3	43.9	42.0
87.5°	17.2	19.1	21.0	19.1	19.1	19.1	21.0	19.1	17.2	13.4	13.4
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)