

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: P647071

Luminaire Tested: **GALN-SA7C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25358.2 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

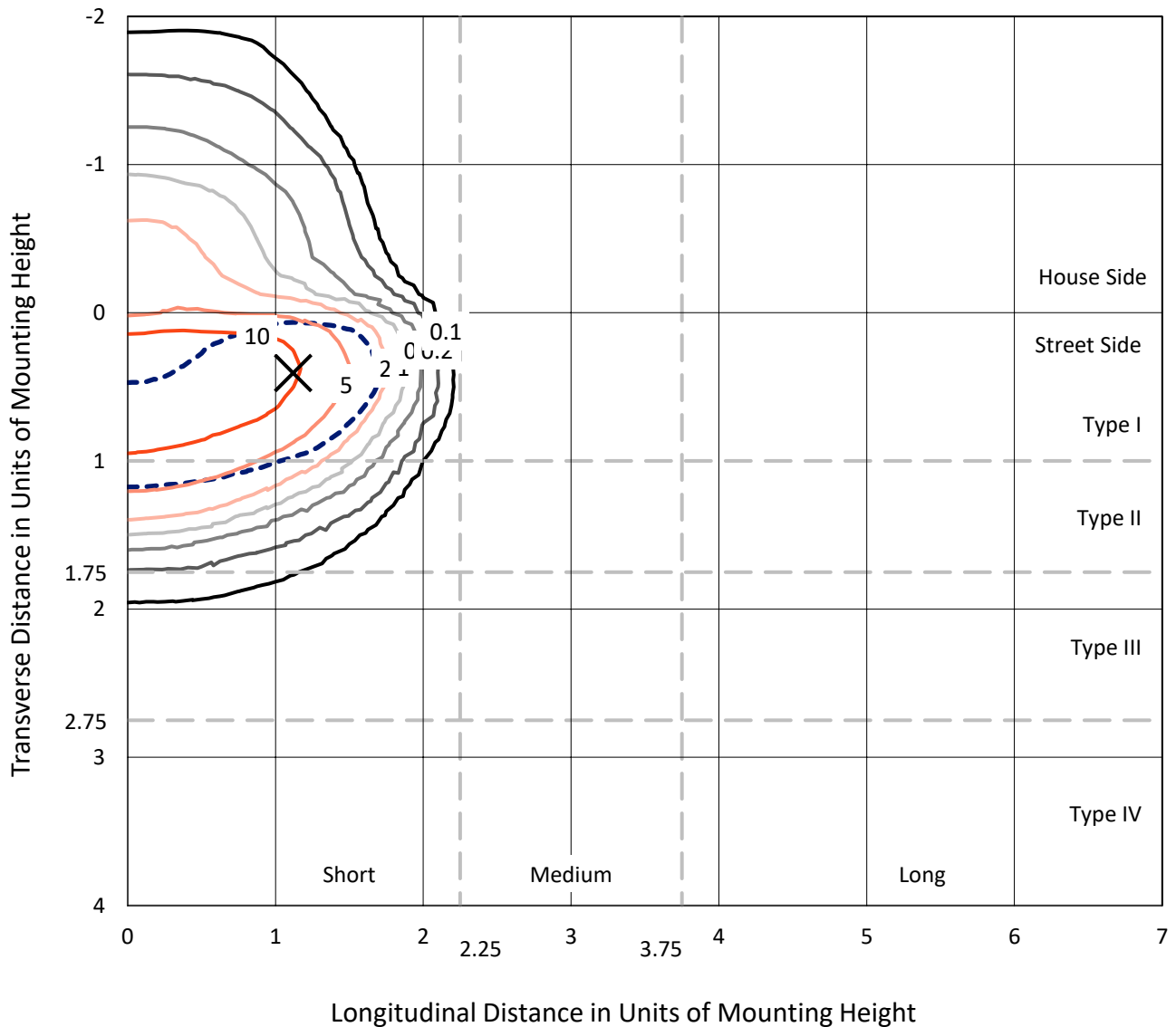
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

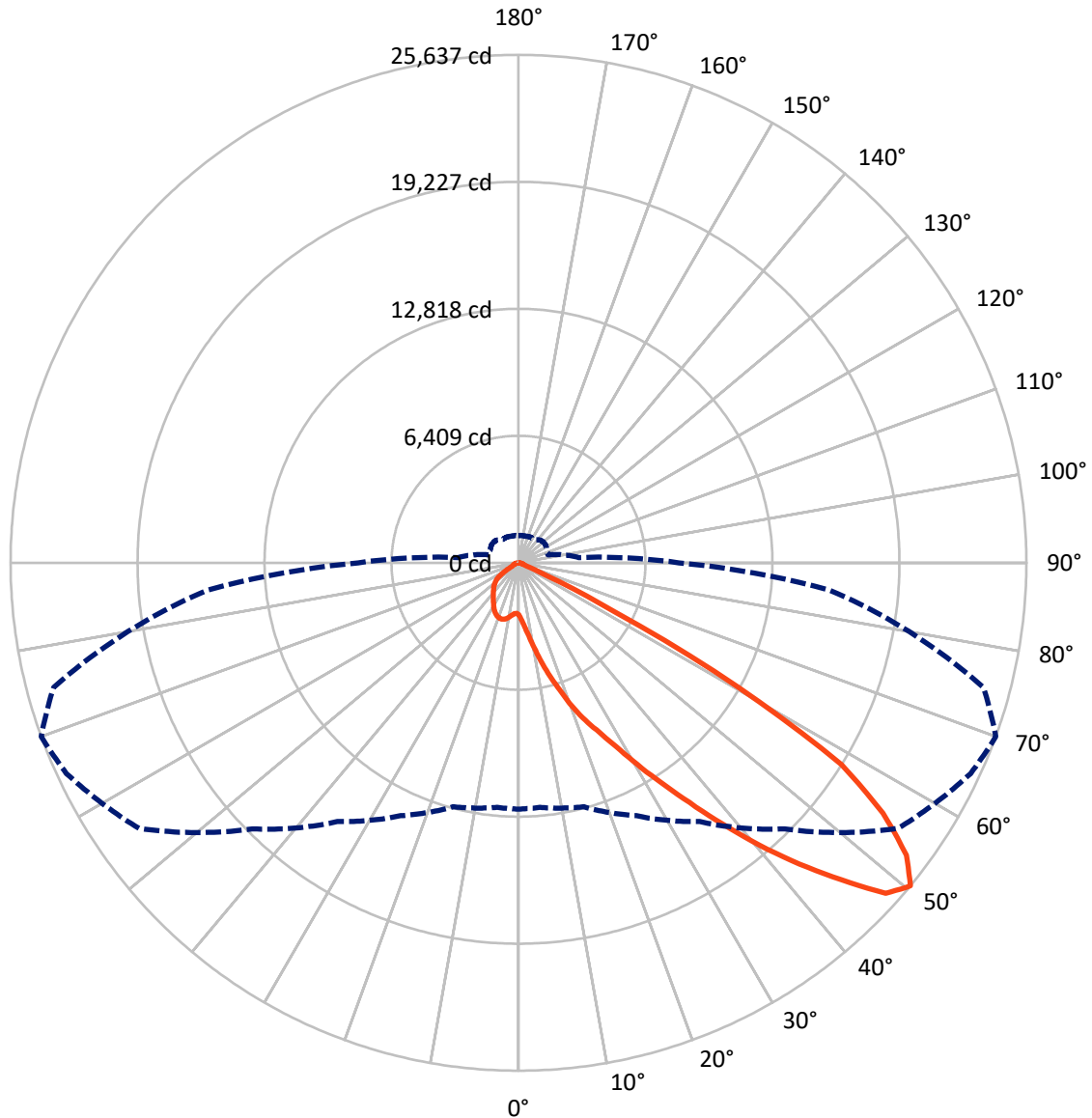
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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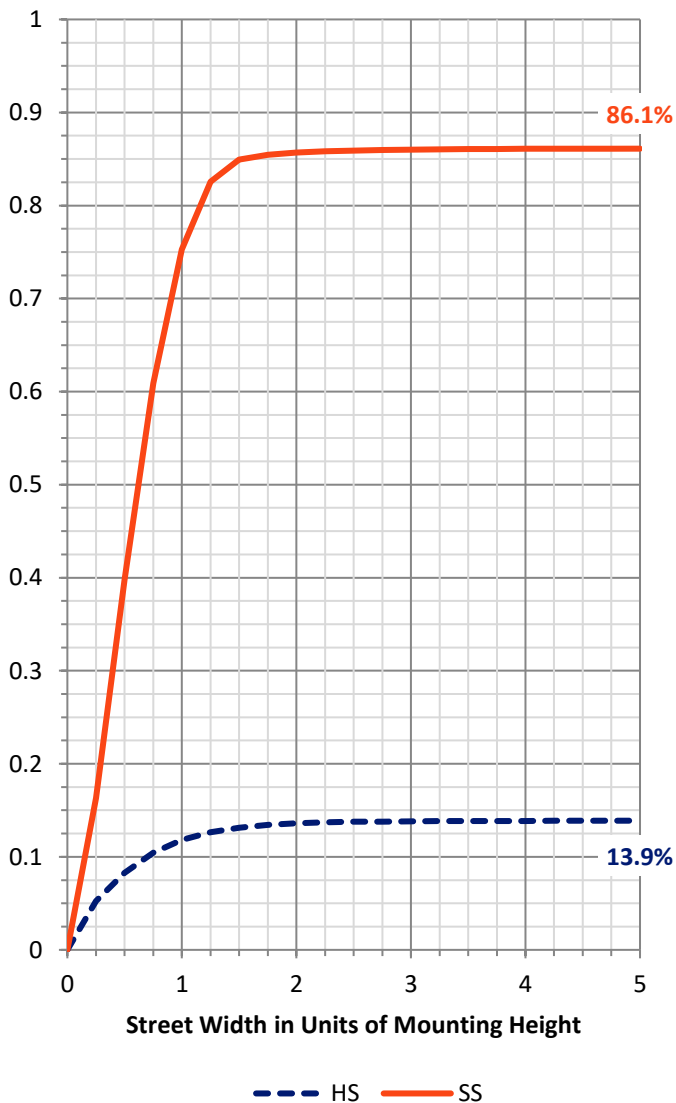
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.4	0.0	3541.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21816.8	0.0	21816.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	25358.2	0.0	25358.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	1.3
10°-20°	1477.4	5.8
20°-30°	3099.4	12.2
30°-40°	5342.4	21.1
40°-50°	7807.9	30.8
50°-60°	6081.0	24.0
60°-70°	1030.3	4.1
70°-80°	141.5	0.6
80°-90°	36.6	0.1
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°	25358.2	100.0
0°-180°	25358.2	100.0

Coefficient of Utilization

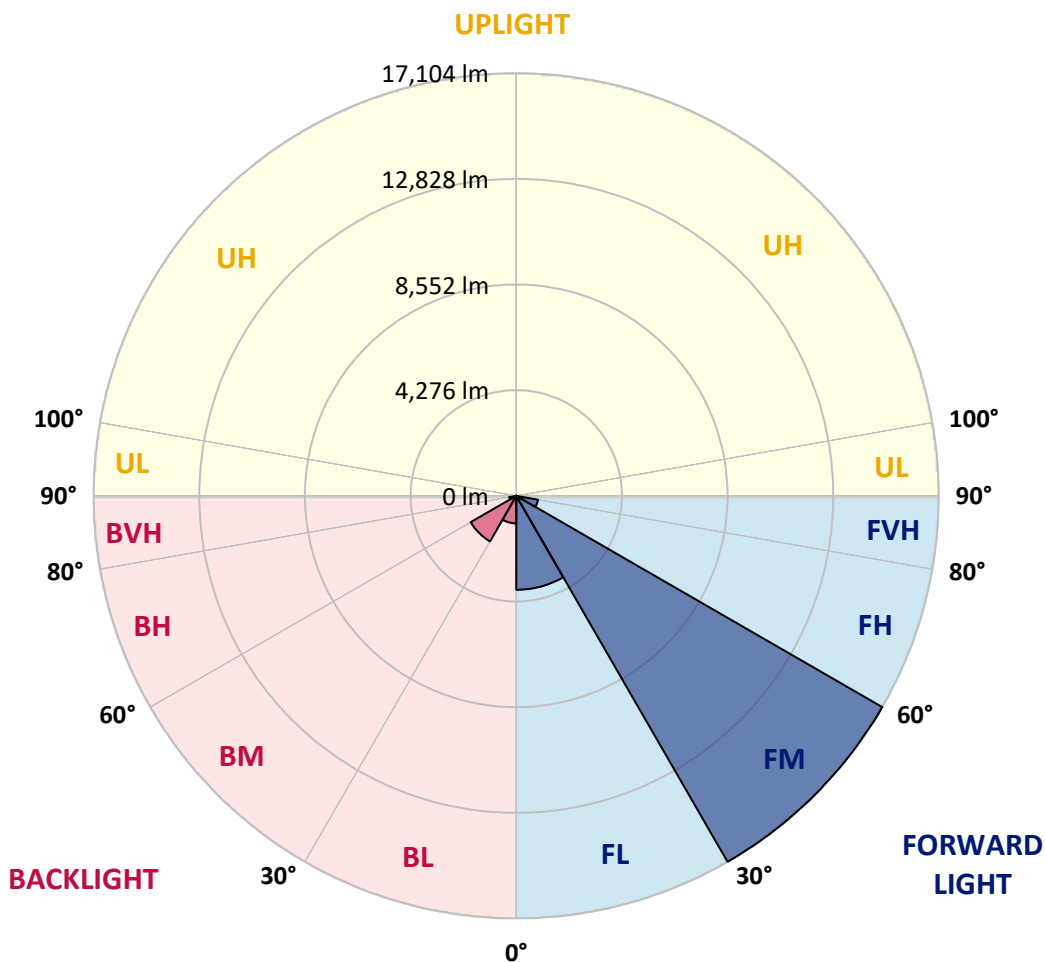


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3804.0	15.0			
FM (30°-60°)	17103.7	67.4			
FH (60°-80°)	892.1	3.5			G1/1800
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1114.4	4.4	B3/2500		
BM (30°-60°)	2127.6	8.4	B2/2500		
BH (60°-80°)	279.7	1.1	B1/500		G1/500
BVH (80°-90°)	19.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7
2.5°	3439.6	3414.6	3360.4	3260.3	3218.7	3118.6	3060.2	2947.7	2876.7	2797.6	2710.0
5°	4844.7	4715.4	4636.2	4523.6	4194.2	3989.9	3652.2	3364.6	3231.1	3085.3	2885.1
7.5°	6295.6	6212.2	6103.7	5861.9	5636.8	5211.6	4632.0	3998.3	3727.3	3477.1	3081.0
10°	7496.3	7262.8	7250.3	7071.0	6825.0	6316.4	5620.1	4832.1	4348.5	3981.6	3360.4
12.5°	8334.3	8121.7	8217.6	8196.7	7967.4	7500.4	6695.7	5653.5	5149.0	4577.8	3648.1
15°	9097.3	9009.7	8980.5	8955.5	8863.8	8517.7	7796.5	6654.1	5924.5	5236.5	3973.3
17.5°	9843.6	9618.4	9726.8	9747.6	9739.3	9426.6	8751.2	7604.7	6745.8	5932.8	4315.1
20°	10506.5	10527.3	10381.4	10352.2	10327.1	10314.7	9656.0	8546.9	7754.8	6662.4	4761.3
22.5°	11356.9	11211.1	11340.3	11257.0	11094.3	10994.3	10489.8	9380.7	8630.3	7542.2	5215.7
25°	12361.8	12478.5	12174.2	12140.8	11961.5	11615.5	11161.0	10314.7	9472.5	8359.3	5707.7
27.5°	13600.0	13395.7	13316.5	13133.1	12807.8	12662.0	12128.3	11277.8	10489.8	9218.2	6183.0
30°	14663.2	14609.0	14212.9	13996.1	13712.6	13708.5	12962.1	12582.7	11815.6	10564.9	6837.5
32.5°	15530.4	15292.7	15146.8	14996.7	14767.4	14829.9	14200.4	14000.3	13228.9	11815.6	7608.9
35°	16109.9	15939.0	15851.4	15622.1	15555.4	15834.8	15572.1	15488.7	14855.0	13575.0	8513.6
37.5°	16293.4	16347.6	16330.9	16043.2	16184.9	16939.6	17277.3	17060.5	16726.9	15430.3	9493.3
40°	16455.9	16493.5	16410.1	16747.8	17152.2	18011.0	19232.7	18874.1	18749.0	17310.6	10856.7
42.5°	16547.7	16518.5	16518.5	17102.2	17715.1	19441.1	21121.3	20883.6	20787.8	19311.8	12432.6
45°	16151.6	15868.1	16172.5	16964.6	18198.7	20145.7	22630.6	22959.9	22822.3	21692.5	14275.4
47.5°	14671.5	14846.6	15017.5	16076.6	17610.8	19928.9	23556.2	24677.7	24932.0	23693.7	15484.5
50°	12432.6	12395.1	12749.5	14083.7	15947.3	18995.0	23376.9	25173.8	25636.6	24294.1	15738.8
52.5°	9043.0	9318.2	9701.8	11027.6	13237.3	16576.8	21062.9	23893.9	24510.9	23556.2	15572.1
55°	5265.8	4961.4	5824.4	6945.9	9030.6	12503.5	17806.8	21179.7	22322.1	22213.6	14729.9
57.5°	2109.6	2042.9	2338.9	3152.0	4711.2	7750.6	12949.6	17402.3	19232.7	20345.9	12945.4
60°	925.6	904.8	1063.2	1284.1	1926.2	3573.1	7083.5	10823.3	12732.8	14217.1	8909.7
62.5°	667.0	658.7	738.0	817.1	1017.3	1555.1	2976.8	4361.0	5436.7	6566.6	3989.9
65°	537.8	558.7	612.9	654.6	750.4	863.0	1050.6	1213.3	1488.4	1542.6	879.7
67.5°	437.8	454.5	504.5	550.4	567.0	467.0	483.7	425.2	425.2	379.4	304.4
70°	321.0	325.2	383.6	437.8	350.2	187.6	329.4	329.4	296.1	283.5	258.5
72.5°	237.6	241.8	287.7	271.0	137.6	116.7	241.8	266.8	241.8	229.3	208.4
75°	175.1	179.3	150.1	62.6	58.3	75.0	141.7	183.5	175.1	170.9	158.4
77.5°	33.4	25.0	20.8	29.2	41.7	62.6	91.7	112.6	116.7	125.0	116.7
80°	4.1	4.1	12.5	25.0	45.9	66.7	95.9	108.4	112.6	116.7	108.4
82.5°	0.0	4.1	12.5	25.0	45.9	62.6	83.4	95.9	104.2	108.4	104.2
85°	0.0	4.1	8.3	20.8	37.5	45.9	41.7	29.2	25.0	29.2	20.8
87.5°	0.0	0.0	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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°	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7	2626.7
2.5°	2659.9	2643.3	2584.9	2522.4	2468.2	2493.2	2468.2	2447.3	2455.6	2447.3	2439.0
5°	2805.9	2730.9	2605.7	2551.6	2505.7	2501.5	2489.0	2484.9	2489.0	2489.0	2451.5
7.5°	2943.5	2822.6	2689.1	2630.8	2576.6	2580.8	2551.6	2551.6	2547.4	2526.6	2518.2
10°	3152.0	2989.3	2818.4	2714.2	2647.5	2635.0	2605.7	2576.6	2576.6	2576.6	2534.9
12.5°	3381.2	3176.9	2943.5	2822.6	2743.3	2680.8	2635.0	2626.7	2580.8	2572.4	2551.6
15°	3581.4	3322.9	3026.8	2860.1	2760.0	2676.6	2605.7	2559.9	2539.0	2526.6	2509.9
17.5°	3777.3	3447.9	3072.7	2860.1	2751.7	2655.8	2580.8	2539.0	2489.0	2497.4	2464.0
20°	4040.0	3581.4	3085.3	2805.9	2672.5	2580.8	2480.7	2459.9	2430.7	2405.6	2414.0
22.5°	4294.3	3677.3	3047.7	2739.2	2547.4	2439.0	2388.9	2364.0	2351.4	2330.6	2301.4
25°	4523.6	3781.5	2989.3	2618.3	2414.0	2334.7	2288.9	2284.7	2255.6	2255.6	2201.3
27.5°	4757.1	3819.0	2889.3	2476.6	2297.2	2251.4	2230.5	2222.2	2209.7	2180.5	2143.0
30°	5023.9	3831.5	2743.3	2330.6	2193.0	2143.0	2172.2	2193.0	2138.8	2084.6	2101.3
32.5°	5244.9	3802.3	2568.2	2193.0	2117.9	2093.0	2151.3	2172.2	2109.6	2051.2	2022.1
35°	5511.7	3731.5	2397.3	2084.6	2042.9	2093.0	2143.0	2143.0	2017.9	1947.0	1930.3
37.5°	5916.1	3652.2	2238.9	1992.9	1963.7	2067.9	2134.6	2088.8	1892.8	1805.3	1784.5
40°	6349.7	3602.2	2084.6	1901.2	1922.0	2026.2	2063.8	1922.0	1721.9	1667.7	1651.0
42.5°	6979.3	3502.1	1947.0	1822.0	1884.5	1967.9	1967.9	1713.5	1638.5	1609.3	1605.2
45°	7763.1	3431.3	1826.1	1755.3	1830.3	1851.2	1784.5	1605.2	1551.0	1542.6	1546.8
47.5°	8146.6	3293.7	1701.1	1676.0	1730.2	1734.4	1559.3	1517.6	1471.7	1459.2	1450.9
50°	8088.3	3047.7	1538.4	1571.8	1646.9	1605.2	1421.7	1430.1	1388.3	1384.2	1363.4
52.5°	7679.7	2659.9	1375.8	1455.0	1538.4	1417.5	1309.2	1300.8	1300.8	1246.6	1225.8
55°	6808.3	2143.0	1179.9	1280.0	1380.0	1192.4	1163.2	1154.8	1134.0	1084.0	1071.5
57.5°	5390.8	1571.8	888.1	996.4	1171.5	1013.1	1009.0	971.5	917.2	879.7	879.7
60°	3206.2	904.8	558.7	608.7	775.5	821.4	913.1	896.4	804.7	746.3	729.6
62.5°	1463.4	467.0	354.4	362.7	416.9	533.7	717.1	829.7	700.4	600.4	592.0
65°	492.0	346.0	291.8	279.4	287.7	321.0	429.4	587.9	558.7	462.8	446.1
67.5°	300.2	308.5	275.1	254.3	254.3	250.2	246.0	266.8	329.4	321.0	325.2
70°	258.5	283.5	254.3	229.3	221.0	208.4	175.1	146.0	125.0	146.0	154.3
72.5°	208.4	225.1	216.8	196.0	175.1	158.4	125.0	95.9	70.9	62.6	62.6
75°	154.3	166.8	175.1	150.1	133.4	112.6	91.7	62.6	37.5	25.0	25.0
77.5°	112.6	125.0	129.3	116.7	100.1	79.2	58.3	41.7	20.8	8.3	8.3
80°	95.9	112.6	125.0	116.7	104.2	75.0	54.2	29.2	16.7	4.1	4.1
82.5°	91.7	112.6	125.0	112.6	100.1	70.9	54.2	33.4	12.5	4.1	4.1
85°	20.8	29.2	37.5	45.9	54.2	54.2	41.7	25.0	12.5	4.1	4.1
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	4.1	4.1	0.0
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)