

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: P531946

Luminaire Tested: **GALN-SA7B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531946
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-SA7B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 33315 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

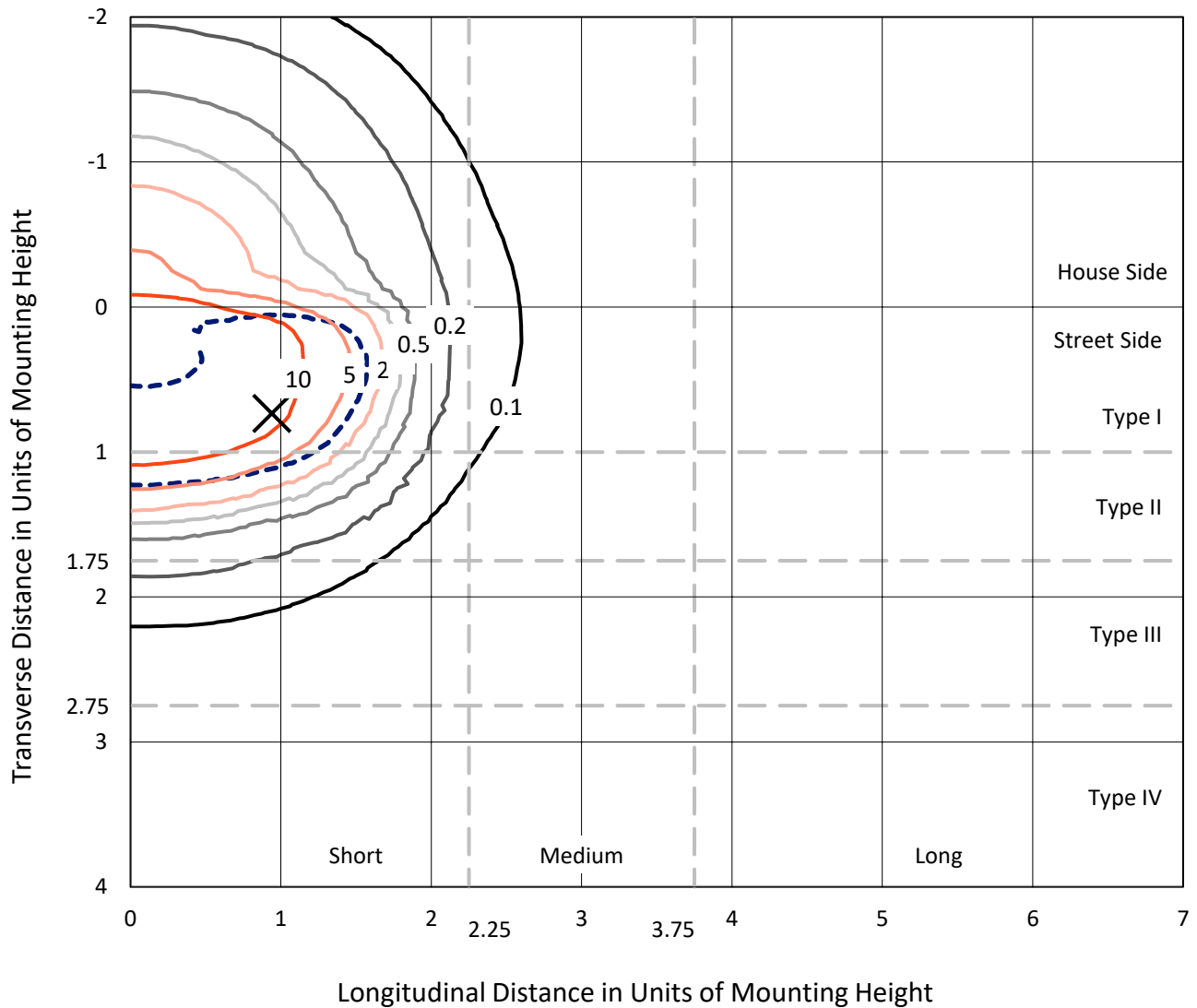
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

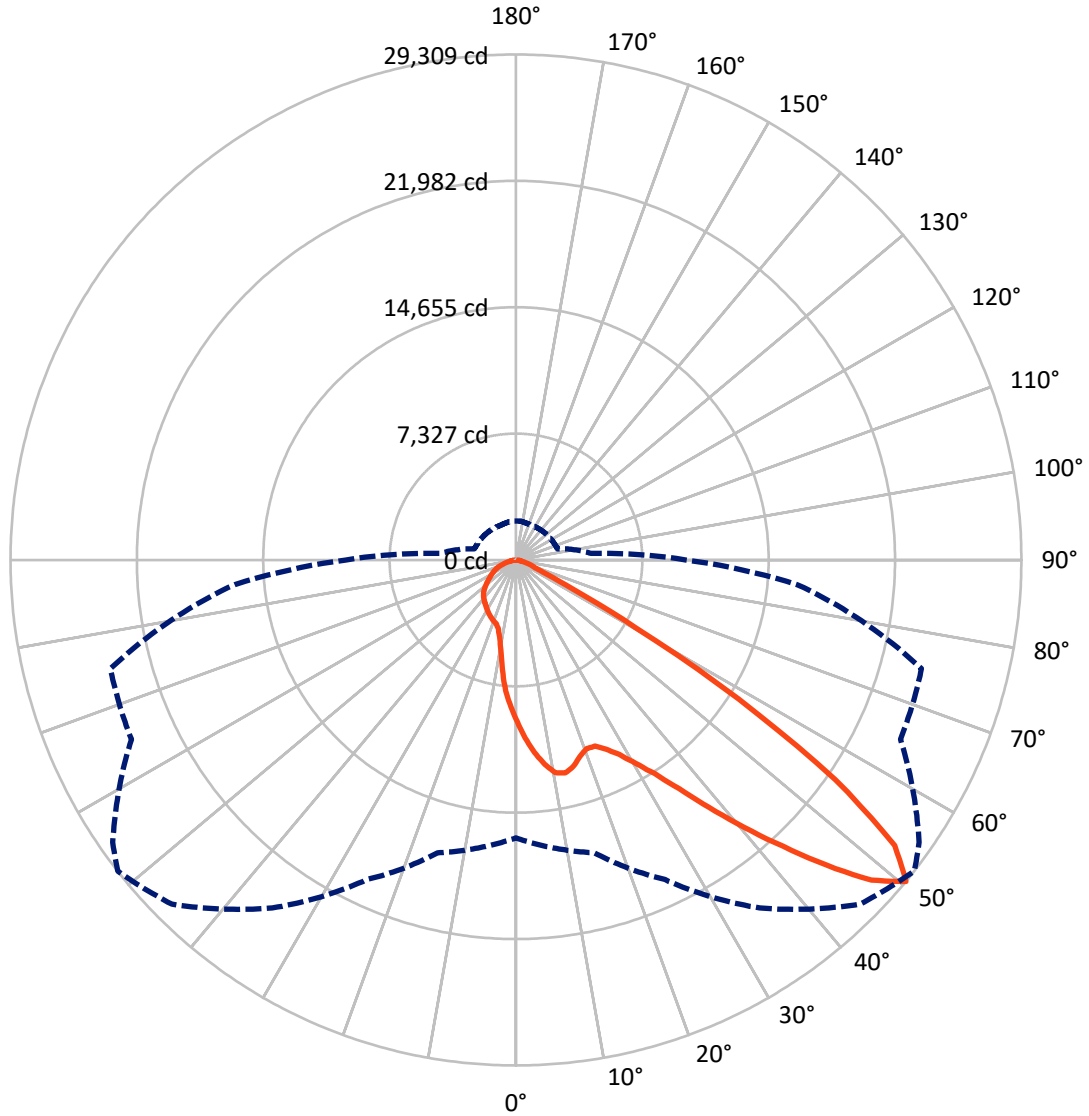
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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	6262.4	0.0	6262.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27052.6	0.0	27052.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	33315.0	0.0	33315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.6	2.6
10°-20°	2319.9	7.0
20°-30°	3907.8	11.7
30°-40°	6557.6	19.7
40°-50°	10031.6	30.1
50°-60°	7313.8	22.0
60°-70°	1627.7	4.9
70°-80°	587.1	1.8
80°-90°	103.9	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°	33315.0	100.0
0°-180°	33315.0	100.0

Coefficient of Utilization



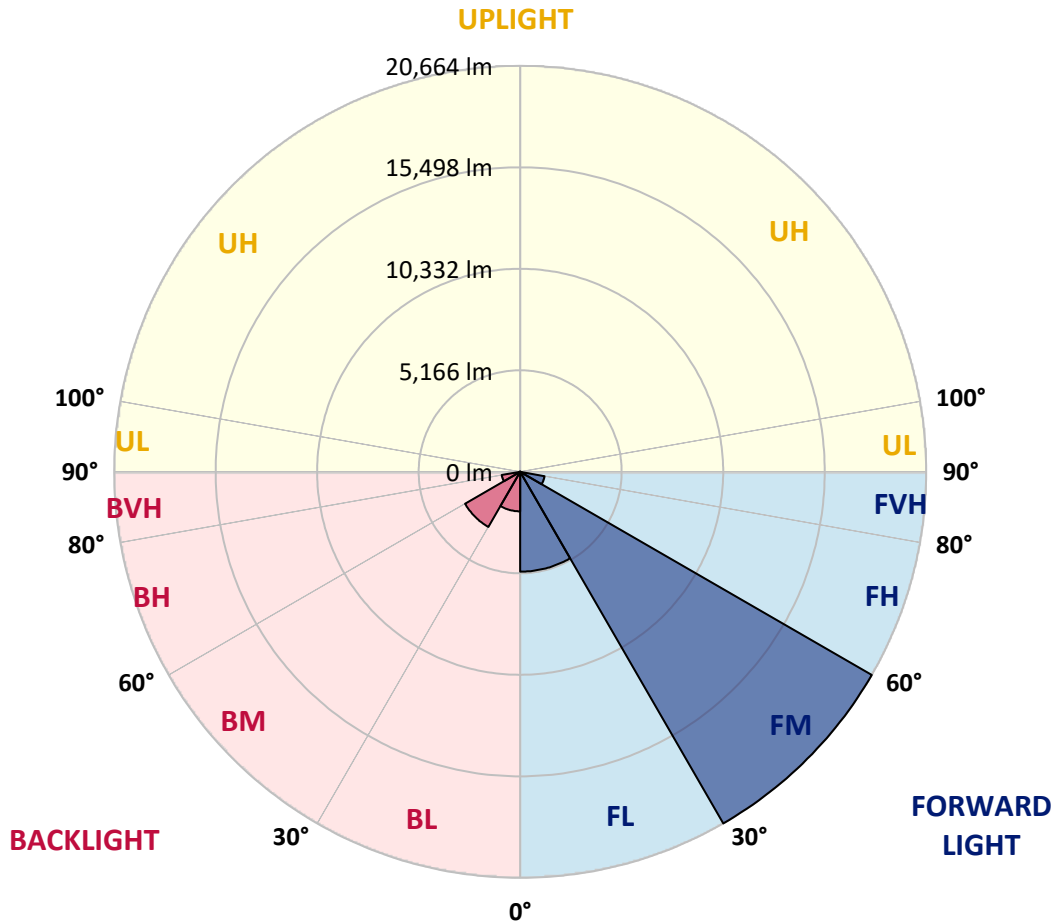
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5081.7	15.3			
FM (30°-60°)	20663.7	62.0			
FH (60°-80°)	1260.7	3.8			G1/1800
FVH (80°-90°)	46.6	0.1			G1/100
BL (0°-30°)	2011.6	6.0	B3/2500		
BM (30°-60°)	3239.4	9.7	B3/5000		
BH (60°-80°)	954.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	57.4	0.2			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°	52°	55°	65°	75°	85°
0°	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9
2.5°	11057.1	10844.4	10868.4	10715.9	10551.3	10503.1	10334.5	10173.9	10053.4	9796.5	9559.6
5°	12085.0	12020.7	11924.4	11803.9	11679.5	11374.3	11201.7	11000.9	10559.3	10161.8	9768.4
7.5°	12233.5	12221.5	12273.7	12273.7	12317.8	12201.4	11956.5	11816.0	11346.2	10699.8	9969.1
10°	11189.6	11225.8	11478.7	11807.9	12265.6	12582.8	12542.7	12506.5	11992.6	11109.3	10206.0
12.5°	10358.5	10278.2	10426.8	10707.8	11394.4	12161.3	12679.2	12683.2	12550.7	11763.8	10378.6
15°	9888.8	9945.0	9985.2	10117.7	10635.6	11522.9	12434.3	12703.3	13285.4	12225.5	10651.6
17.5°	10189.9	10001.2	9993.2	10025.3	10290.3	10956.8	11980.6	12442.3	13686.9	12819.7	10988.9
20°	10583.4	10579.4	10467.0	10426.8	10422.8	11017.0	11683.5	12309.8	13899.7	13590.6	11330.2
22.5°	11274.0	11274.0	11089.3	11000.9	10812.2	11298.0	11723.6	12149.2	14253.0	14120.5	11494.8
25°	12430.3	12241.6	11924.4	11707.6	11599.2	11771.8	12149.2	12530.6	14562.2	14682.6	11836.0
27.5°	13498.2	13201.1	13044.5	12671.2	12526.6	12426.2	12771.5	13157.0	14923.5	15557.9	12020.7
30°	14710.7	14658.5	14377.5	13895.7	13538.4	13353.7	13670.9	14052.3	15586.0	16453.2	12446.3
32.5°	16878.8	16405.0	16023.6	15433.4	14851.3	14457.8	14771.0	15023.9	16686.1	17388.7	12912.0
35°	19219.5	19067.0	18408.5	17344.5	16453.2	16099.9	16284.6	16473.3	17966.9	18818.0	13695.0
37.5°	21520.1	21311.3	20769.3	19874.0	18789.9	18071.2	18203.7	18424.6	19404.2	20745.2	14650.5
40°	23174.2	22917.3	22644.3	22511.8	21435.8	20452.1	20375.8	20432.0	21347.4	22551.9	15710.5
42.5°	23294.7	23611.9	23696.2	24230.2	23977.2	23170.2	22700.5	22712.5	23202.3	24338.6	16782.5
45°	23041.7	22748.7	23371.0	24828.4	25663.5	26040.9	25250.0	25149.6	24350.6	25374.4	17316.4
47.5°	20387.9	20468.2	21520.1	23824.7	26237.6	27923.9	27739.2	27406.0	24964.9	25338.3	17232.1
50°	16116.0	16601.8	17577.4	20448.1	24631.7	28221.0	29309.1	28538.2	24599.5	24342.6	16372.9
52.5°	10731.9	10932.7	11575.1	15280.9	19805.7	25225.9	27502.3	27679.0	24262.3	23037.7	15284.9
55°	4777.8	4761.7	5665.1	7981.7	12426.2	19195.4	22471.6	23547.6	22965.5	21708.8	14224.9
57.5°	2023.5	2091.8	2461.2	3448.8	6110.7	11583.1	15224.7	16168.2	17661.7	17826.3	10912.6
60°	1369.1	1377.1	1477.5	1726.4	2557.5	5440.2	7985.7	9117.9	10185.9	10113.6	5789.5
62.5°	1076.0	1104.1	1180.4	1280.8	1517.6	2469.2	3573.3	4203.6	4271.9	3593.4	2196.2
65°	919.4	923.4	999.7	1084.0	1188.4	1437.3	1722.4	1754.5	1774.6	1710.4	1614.0
67.5°	758.8	766.9	827.1	923.4	1019.8	1100.1	1180.4	1220.5	1312.9	1493.6	1469.5
70°	602.2	614.3	666.5	746.8	835.1	883.3	983.7	1019.8	1104.1	1244.6	1300.8
72.5°	457.7	461.7	505.9	562.1	642.4	690.6	774.9	815.0	871.2	991.7	1043.9
75°	329.2	341.3	373.4	401.5	413.5	445.7	526.0	570.1	650.4	702.6	706.6
77.5°	172.6	180.7	188.7	188.7	228.9	289.1	341.3	365.4	421.6	461.7	441.6
80°	68.3	72.3	92.3	124.5	160.6	208.8	244.9	257.0	305.1	329.2	341.3
82.5°	40.1	44.2	60.2	88.3	116.4	148.6	176.7	188.7	220.8	248.9	257.0
85°	20.1	24.1	36.1	56.2	76.3	92.3	88.3	84.3	84.3	80.3	84.3
87.5°	8.0	8.0	12.0	12.0	12.0	16.1	20.1	20.1	20.1	24.1	24.1
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°	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9
2.5°	9403.0	9242.4	9093.8	8820.8	8523.7	8439.4	8094.1	7969.7	7881.3	7776.9	7744.8
5°	9451.2	9238.4	8760.6	8210.6	7772.9	7210.8	6841.5	6444.0	6154.9	6082.6	6062.6
7.5°	9551.5	9186.2	8363.1	7532.0	6636.7	5873.9	5291.7	4978.5	4701.5	4685.4	4657.3
10°	9664.0	9029.6	7929.5	6624.7	5480.4	4773.8	4424.5	4288.0	4219.7	4203.6	4195.6
12.5°	9756.3	8997.5	7443.7	5741.4	4661.3	4235.8	4131.4	4119.3	4147.4	4155.5	4171.5
15°	9796.5	8869.0	6857.5	4950.4	4151.4	3994.9	4039.0	4087.2	4107.3	4159.5	4119.3
17.5°	9872.7	8704.4	6134.8	4324.1	3866.4	3894.5	3970.8	4027.0	4059.1	4095.2	4043.0
20°	9912.9	8555.8	5456.3	3950.7	3766.0	3818.2	3922.6	3966.8	4006.9	4023.0	3962.7
22.5°	9876.8	8250.7	4858.1	3649.6	3669.7	3737.9	3830.3	3878.4	3854.3	3790.1	3754.0
25°	9780.4	7821.1	4235.8	3456.9	3533.1	3653.6	3725.9	3689.7	3645.6	3609.4	3597.4
27.5°	9776.4	7295.1	3786.1	3280.2	3416.7	3581.3	3557.2	3525.1	3545.2	3517.1	3485.0
30°	9796.5	6785.2	3416.7	3179.8	3332.4	3412.7	3440.8	3408.7	3432.8	3380.6	3396.6
32.5°	9692.1	6287.4	3175.8	3063.4	3232.0	3228.0	3320.4	3344.4	3288.2	3179.8	3195.9
35°	9736.2	5885.9	2971.1	3011.2	3119.6	3119.6	3191.9	3163.8	3015.2	2951.0	2967.0
37.5°	10041.4	5492.4	2870.7	2938.9	3011.2	3043.3	3019.2	2898.8	2862.7	2862.7	2870.7
40°	10330.4	5155.2	2810.5	2922.9	2910.8	2930.9	2754.2	2766.3	2766.3	2770.3	2750.2
42.5°	10587.4	4926.3	2762.3	2826.5	2846.6	2742.2	2633.8	2621.8	2649.9	2645.8	2629.8
45°	10679.7	4737.6	2694.0	2718.1	2734.2	2561.5	2509.3	2485.2	2517.4	2529.4	2545.5
47.5°	10326.4	4581.0	2617.7	2569.6	2537.4	2425.0	2356.8	2312.6	2352.8	2421.0	2437.1
50°	9872.7	4376.3	2497.3	2404.9	2336.7	2288.5	2240.3	2196.2	2224.3	2272.5	2260.4
52.5°	9202.2	4055.1	2344.7	2248.4	2131.9	2144.0	2099.8	2075.7	2091.8	2091.8	2079.7
55°	8246.7	3332.4	2087.8	2019.5	1923.2	1955.3	1963.3	1931.2	1899.1	1927.2	1903.1
57.5°	5628.9	2352.8	1862.9	1862.9	1766.6	1810.7	1806.7	1730.4	1654.2	1662.2	1646.1
60°	3256.1	1875.0	1718.4	1702.3	1602.0	1638.1	1646.1	1593.9	1477.5	1485.5	1469.5
62.5°	1850.9	1602.0	1501.6	1477.5	1457.4	1489.5	1489.5	1421.3	1320.9	1328.9	1312.9
65°	1573.9	1485.5	1341.0	1337.0	1328.9	1337.0	1304.9	1232.6	1144.3	1108.1	1112.1
67.5°	1429.3	1373.1	1232.6	1196.5	1172.4	1168.3	1108.1	1039.9	999.7	967.6	963.6
70°	1252.7	1208.5	1104.1	1055.9	1031.8	975.6	915.4	871.2	815.0	799.0	815.0
72.5°	991.7	987.7	947.5	895.3	843.1	799.0	746.8	686.6	634.4	622.3	594.2
75°	686.6	694.6	702.6	694.6	650.4	594.2	534.0	485.8	421.6	385.4	377.4
77.5°	449.7	461.7	473.8	457.7	429.6	377.4	337.3	277.0	228.9	200.7	196.7
80°	329.2	345.3	353.3	341.3	309.2	269.0	224.8	176.7	140.5	116.4	116.4
82.5°	252.9	269.0	277.0	257.0	224.8	192.7	160.6	124.5	96.4	76.3	72.3
85°	88.3	84.3	100.4	104.4	124.5	116.4	96.4	72.3	56.2	40.1	36.1
87.5°	24.1	24.1	28.1	28.1	24.1	20.1	20.1	20.1	16.1	12.0	12.0
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)