

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: P532142

Luminaire Tested: **GALN-SA7C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35987 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

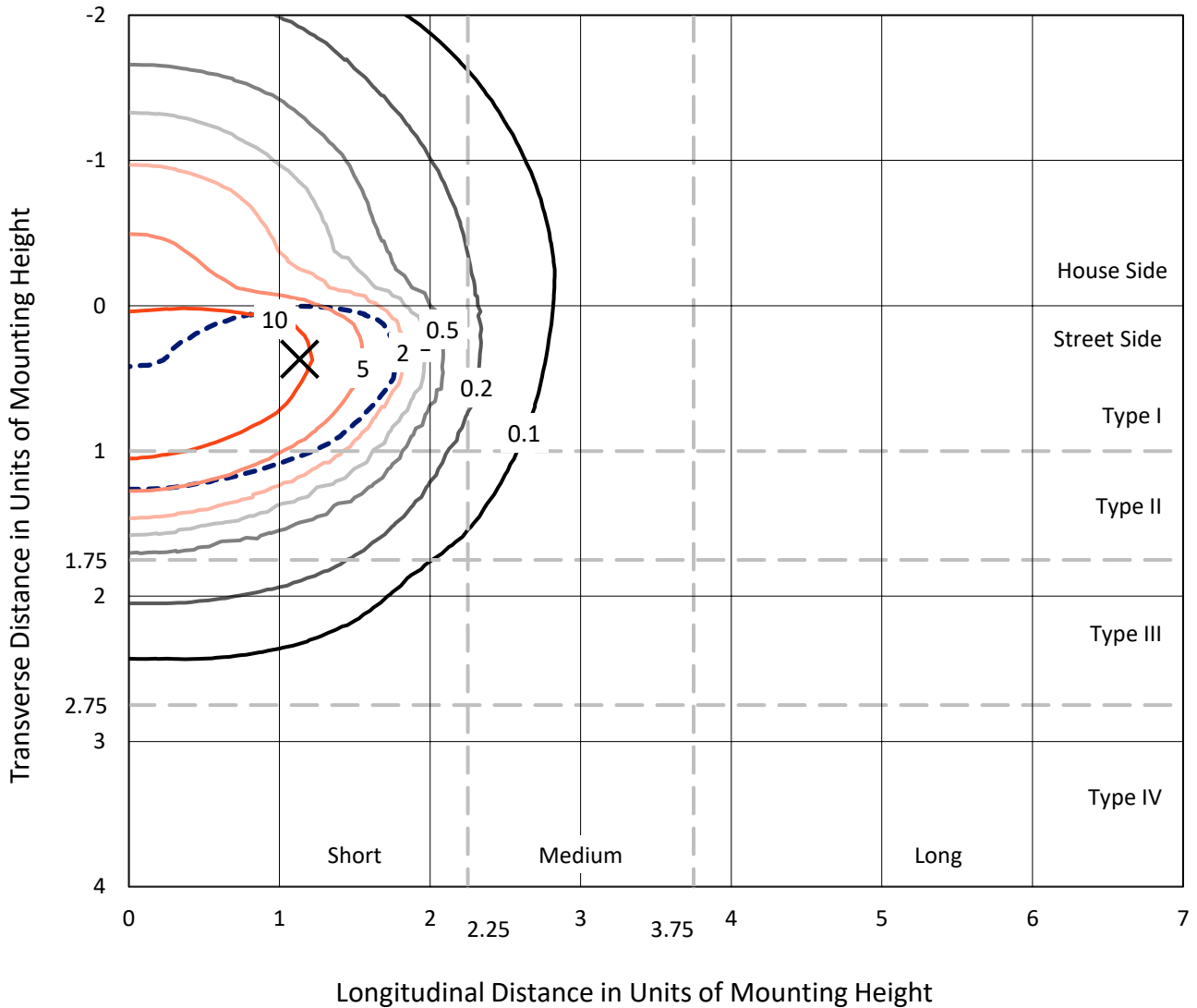
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

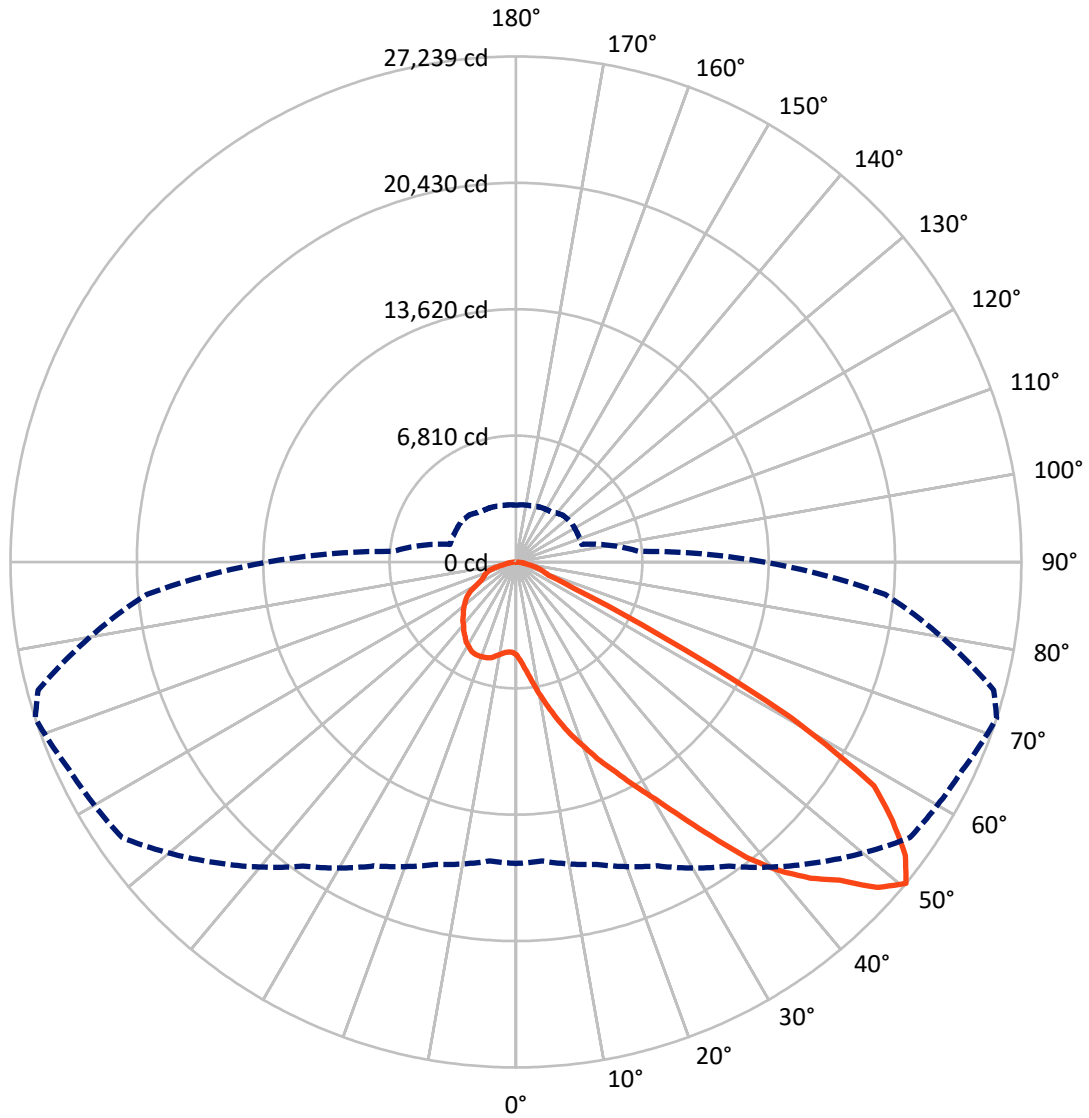
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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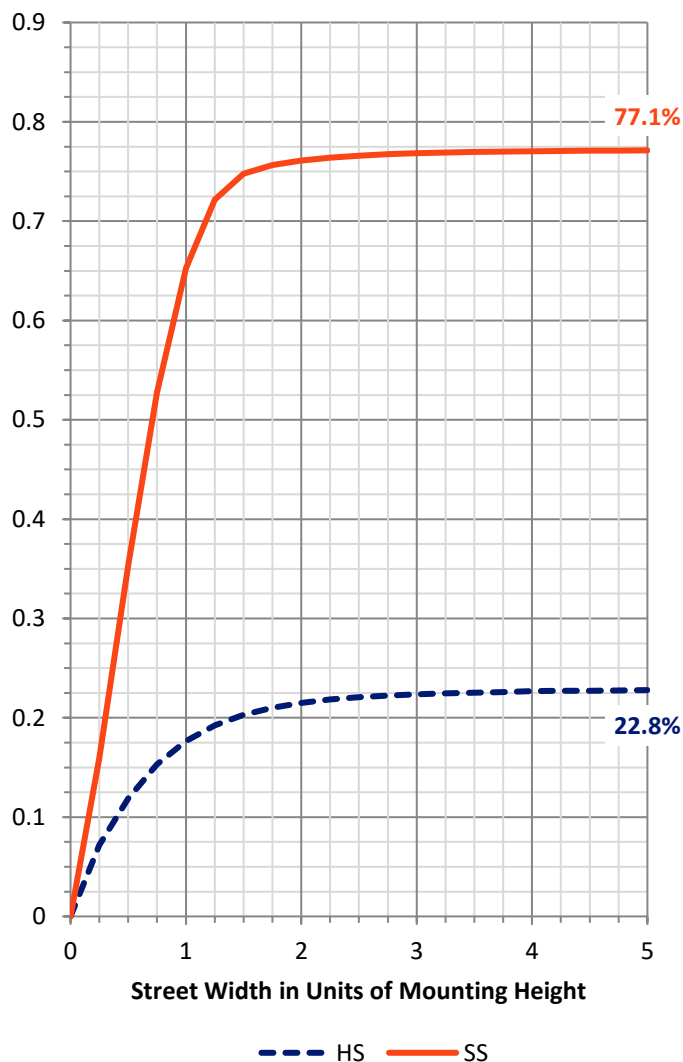
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8244.8	0.0	8244.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	27742.2	0.0	27742.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	35987.0	0.0	35987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.3	1.6
10°-20°	2202.9	6.1
20°-30°	4271.2	11.9
30°-40°	7076.0	19.7
40°-50°	9900.8	27.5
50°-60°	8352.6	23.2
60°-70°	2545.9	7.1
70°-80°	893.2	2.5
80°-90°	155.3	0.4
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°	35987.0	100.0
0°-180°	35987.0	100.0

Coefficient of Utilization

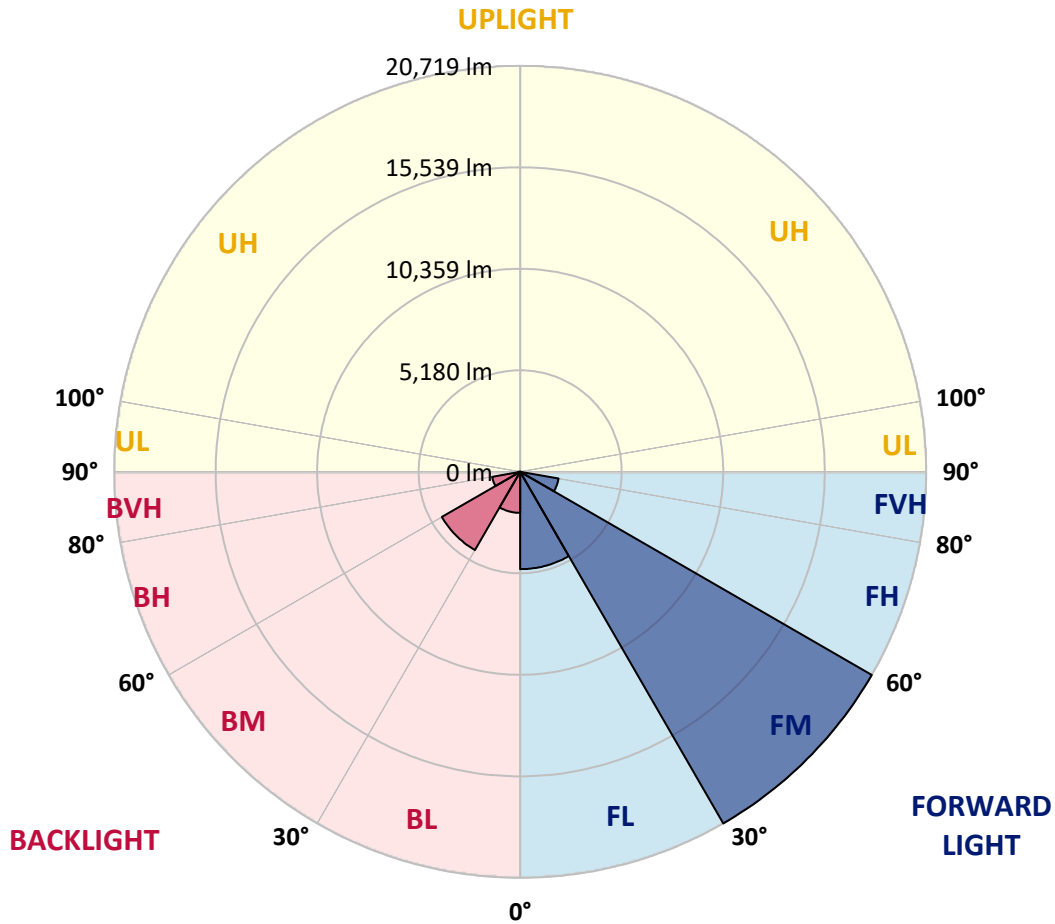


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4967.5	13.8			
FM (30°-60°)	20718.7	57.6			
FH (60°-80°)	1986.4	5.5			G2/5000
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	2095.9	5.8	B3/2500		
BM (30°-60°)	4610.6	12.8	B3/5000		
BH (60°-80°)	1452.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	85.7	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7
2.5°	6443.6	6403.5	6283.3	6243.2	6100.7	5842.4	5753.4	5490.6	5379.3	5276.9	5156.6
5°	8149.1	7962.1	7948.7	7721.6	7392.1	7200.6	6630.6	6247.6	5895.9	5717.7	5388.2
7.5°	9235.7	9240.1	9240.1	9053.1	8790.3	8305.0	7792.9	7102.6	6572.7	6310.0	5748.9
10°	10268.8	10179.7	10130.7	10112.9	9934.8	9462.8	8915.0	8060.0	7334.2	7026.9	6020.5
12.5°	10999.1	10923.4	11034.7	10976.8	10847.7	10540.4	10023.8	9048.6	8140.2	7726.1	6456.9
15°	11346.4	11399.8	11488.9	11649.2	11591.3	11475.5	10905.6	10063.9	9008.5	8541.0	6844.4
17.5°	11880.8	11733.8	11840.7	12041.1	12201.4	12148.0	11822.9	10798.7	9868.0	9293.5	7365.4
20°	12254.8	12170.2	12223.7	12455.2	12575.5	12878.3	12709.0	11760.5	10691.8	10086.2	7979.9
22.5°	13323.6	13198.9	13025.2	13060.8	13105.4	13319.1	13359.2	12815.9	11649.2	11008.0	8563.2
25°	14641.7	14525.9	14321.1	14111.8	13982.6	13942.5	14080.6	13644.2	12566.5	11903.0	9191.1
27.5°	16093.4	15897.4	15768.3	15336.4	14989.0	14935.6	14868.8	14632.8	13653.1	12936.2	9899.2
30°	17505.0	17349.1	17175.5	16485.2	16124.5	16066.7	15737.1	15803.9	14833.2	14036.1	10700.7
32.5°	18573.7	18587.1	18190.8	17669.8	17331.3	17024.1	16903.8	17095.3	16347.2	15706.0	11595.8
35°	19437.6	19477.7	19099.2	18627.2	18262.0	18475.8	18422.3	18511.4	18155.1	17371.4	12637.8
37.5°	20279.3	20078.9	19673.6	19446.5	19255.0	19606.8	20061.1	20136.8	20203.6	19281.8	13849.0
40°	20417.3	20435.1	20199.1	20359.4	20118.9	20648.9	21704.2	21606.3	21877.9	21071.9	15162.7
42.5°	20221.4	20261.4	20355.0	20582.1	21161.0	21797.7	23365.2	22964.5	23294.0	22577.0	16440.7
45°	19900.7	19736.0	19851.8	20715.7	21717.6	23133.7	24883.7	24572.0	24465.1	23864.0	17963.7
47.5°	18368.9	18538.1	18898.8	19963.1	21468.2	23365.2	25961.4	25890.1	26210.7	25787.7	19348.6
50°	16244.8	16178.0	16872.7	18070.5	20012.1	22911.0	25903.5	26549.2	27239.4	26651.6	19967.5
52.5°	12165.8	12522.0	13118.7	14606.1	17375.9	20435.1	24638.8	25716.4	26277.5	26152.8	19468.8
55°	7690.4	7797.3	8158.0	9925.9	12419.6	16400.6	21120.9	23619.1	24621.0	25088.6	19010.1
57.5°	3736.1	3535.7	3976.6	5397.1	7173.9	11030.2	16289.3	20573.2	22750.7	23596.8	18012.6
60°	1950.4	2026.1	2199.8	2707.5	3709.4	5726.6	10153.0	13711.0	17037.4	18337.7	13653.1
62.5°	1616.5	1643.2	1759.0	2012.8	2467.0	3295.3	5183.4	6684.0	8687.9	9859.1	7766.1
65°	1371.5	1384.9	1509.6	1678.8	1968.3	2320.0	2667.4	2792.1	3379.9	3468.9	2760.9
67.5°	1144.4	1157.8	1291.4	1451.7	1638.7	1732.2	1821.3	1812.4	1879.2	1852.5	1848.0
70°	881.7	895.1	1033.1	1202.3	1295.8	1242.4	1518.5	1580.8	1607.6	1629.8	1665.4
72.5°	636.8	663.5	770.4	890.6	841.6	966.3	1251.3	1344.8	1380.4	1393.8	1438.3
75°	463.1	472.0	498.7	463.1	534.4	672.4	881.7	997.5	1042.0	1055.4	1122.2
77.5°	204.8	209.3	213.7	267.2	342.9	418.6	525.5	619.0	681.3	699.1	716.9
80°	106.9	111.3	138.0	182.6	244.9	307.3	383.0	436.4	476.5	480.9	498.7
82.5°	66.8	71.2	98.0	129.1	173.7	227.1	280.5	325.1	356.2	360.7	365.2
85°	31.2	40.1	57.9	80.2	115.8	147.0	151.4	129.1	138.0	142.5	133.6
87.5°	8.9	13.4	17.8	13.4	17.8	17.8	22.3	26.7	26.7	26.7	31.2
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°	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7	5009.7
2.5°	5089.9	5049.8	4893.9	4836.0	4684.6	4711.3	4631.2	4626.7	4608.9	4604.5	4600.0
5°	5214.5	5089.9	4902.8	4760.3	4675.7	4666.8	4608.9	4608.9	4626.7	4640.1	4608.9
7.5°	5419.4	5276.9	4960.7	4827.1	4751.4	4738.1	4698.0	4666.8	4706.9	4693.5	4657.9
10°	5655.4	5406.0	5072.0	4956.3	4831.6	4800.4	4800.4	4813.8	4747.0	4769.2	4733.6
12.5°	5918.1	5584.1	5214.5	5080.9	4934.0	4916.2	4907.3	4809.3	4844.9	4827.1	4738.1
15°	6252.1	5789.0	5397.1	5170.0	5045.3	4965.2	4849.4	4831.6	4809.3	4764.8	4724.7
17.5°	6612.8	6011.6	5481.7	5196.7	5009.7	4951.8	4862.7	4769.2	4702.4	4711.3	4680.2
20°	6920.1	6216.5	5512.9	5223.4	4983.0	4871.7	4733.6	4675.7	4604.5	4600.0	4595.6
22.5°	7285.2	6492.6	5557.4	5152.2	4902.8	4787.0	4693.5	4591.1	4542.1	4479.8	4511.0
25°	7721.6	6599.4	5566.3	5112.1	4844.9	4640.1	4591.1	4479.8	4462.0	4372.9	4390.7
27.5°	8037.8	6657.3	5495.1	4987.4	4711.3	4555.5	4466.4	4386.3	4355.1	4288.3	4270.5
30°	8460.8	6746.4	5343.7	4831.6	4577.8	4404.1	4350.6	4332.8	4243.8	4172.5	4163.6
32.5°	8941.8	6804.3	5245.7	4671.3	4439.7	4306.1	4332.8	4248.2	4136.9	4074.6	4056.7
35°	9324.7	6826.5	5000.8	4488.7	4346.2	4261.6	4230.4	4212.6	4052.3	3994.4	3949.9
37.5°	9908.1	6777.6	4796.0	4359.5	4243.8	4212.6	4185.9	4065.6	3883.1	3798.5	3736.1
40°	10589.4	6764.2	4533.2	4177.0	4145.8	4181.4	4101.3	3914.2	3660.4	3566.9	3522.4
42.5°	11244.0	6857.7	4368.5	4079.0	4038.9	4052.3	3941.0	3660.4	3535.7	3482.3	3411.0
45°	12339.4	7053.7	4096.8	3927.6	3909.8	3900.9	3767.3	3473.4	3402.1	3335.3	3322.0
47.5°	13328.0	6924.5	3923.1	3771.7	3789.6	3740.6	3455.6	3362.1	3281.9	3215.1	3192.8
50°	13385.9	6617.3	3678.2	3651.5	3656.0	3571.4	3299.7	3237.4	3135.0	3090.4	3059.3
52.5°	13083.1	6114.1	3451.1	3460.0	3473.4	3335.3	3108.2	3063.7	2979.1	2916.8	2898.9
55°	12232.6	5330.3	3228.5	3264.1	3299.7	3037.0	2965.7	2854.4	2787.6	2698.6	2703.0
57.5°	10776.4	4292.8	2916.8	2974.6	3050.3	2760.9	2707.5	2569.4	2471.5	2400.2	2391.3
60°	7222.9	3054.8	2449.2	2471.5	2640.7	2524.9	2520.4	2382.4	2248.8	2186.5	2150.8
62.5°	4261.6	2333.4	2115.2	2092.9	2088.5	2155.3	2266.6	2217.6	2044.0	1923.7	1959.3
65°	2231.0	2017.2	1968.3	1892.6	1848.0	1830.2	1914.8	1937.1	1821.3	1692.2	1683.3
67.5°	1874.7	1874.7	1834.7	1807.9	1745.6	1669.9	1616.5	1545.2	1527.4	1491.8	1447.2
70°	1705.5	1750.1	1736.7	1674.4	1620.9	1536.3	1398.3	1282.5	1171.2	1131.1	1157.8
72.5°	1487.3	1531.9	1531.9	1500.7	1429.4	1300.3	1166.7	1033.1	939.6	868.3	859.4
75°	1144.4	1166.7	1220.1	1184.5	1091.0	1010.8	872.8	734.8	645.7	578.9	565.5
77.5°	730.3	765.9	765.9	761.5	694.7	619.0	529.9	431.9	365.2	316.2	302.8
80°	485.4	507.6	525.5	507.6	463.1	405.2	338.4	271.6	222.7	182.6	173.7
82.5°	356.2	383.0	396.3	378.5	334.0	289.4	240.5	191.5	142.5	111.3	102.4
85°	138.0	142.5	160.3	191.5	187.0	182.6	147.0	106.9	80.2	57.9	53.4
87.5°	35.6	31.2	35.6	35.6	31.2	26.7	26.7	26.7	26.7	13.4	17.8
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)