

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: P528858

Luminaire Tested: **GALN-SA4A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12800 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

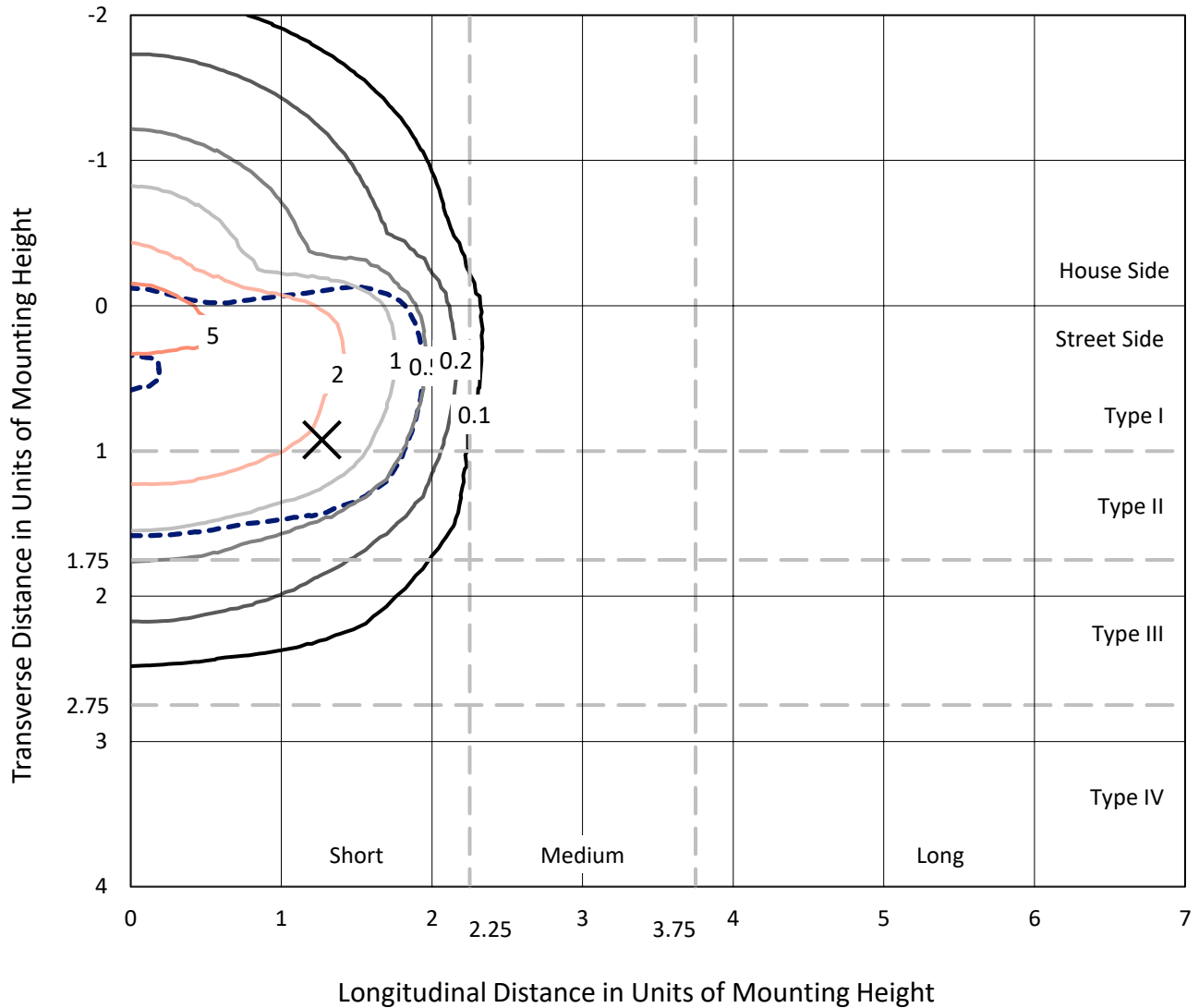
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

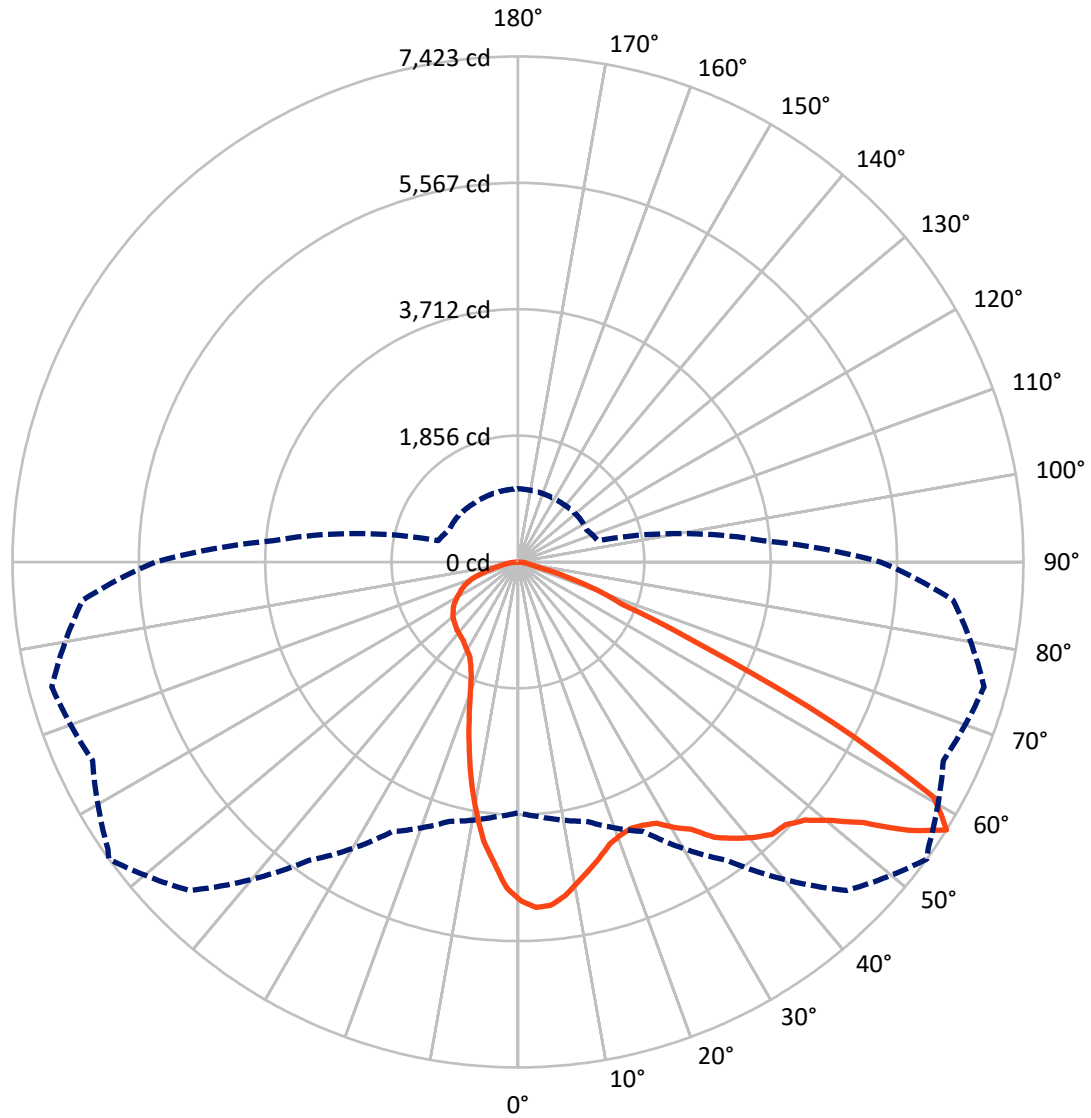
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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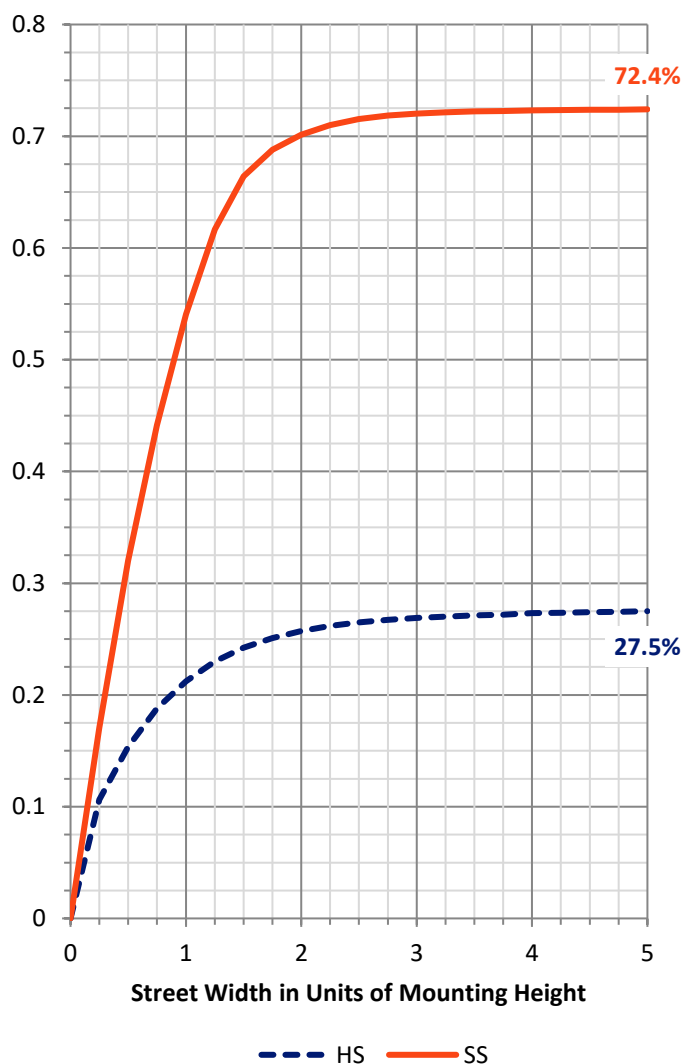
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.2	0.0	3541.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	9258.8	0.0	9258.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	12800.0	0.0	12800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.1	3.4
10°-20°	993.4	7.8
20°-30°	1395.8	10.9
30°-40°	1951.3	15.2
40°-50°	2641.7	20.6
50°-60°	3217.7	25.1
60°-70°	1675.9	13.1
70°-80°	429.4	3.4
80°-90°	65.5	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°	12800.0	100.0
0°-180°	12800.0	100.0

Coefficient of Utilization



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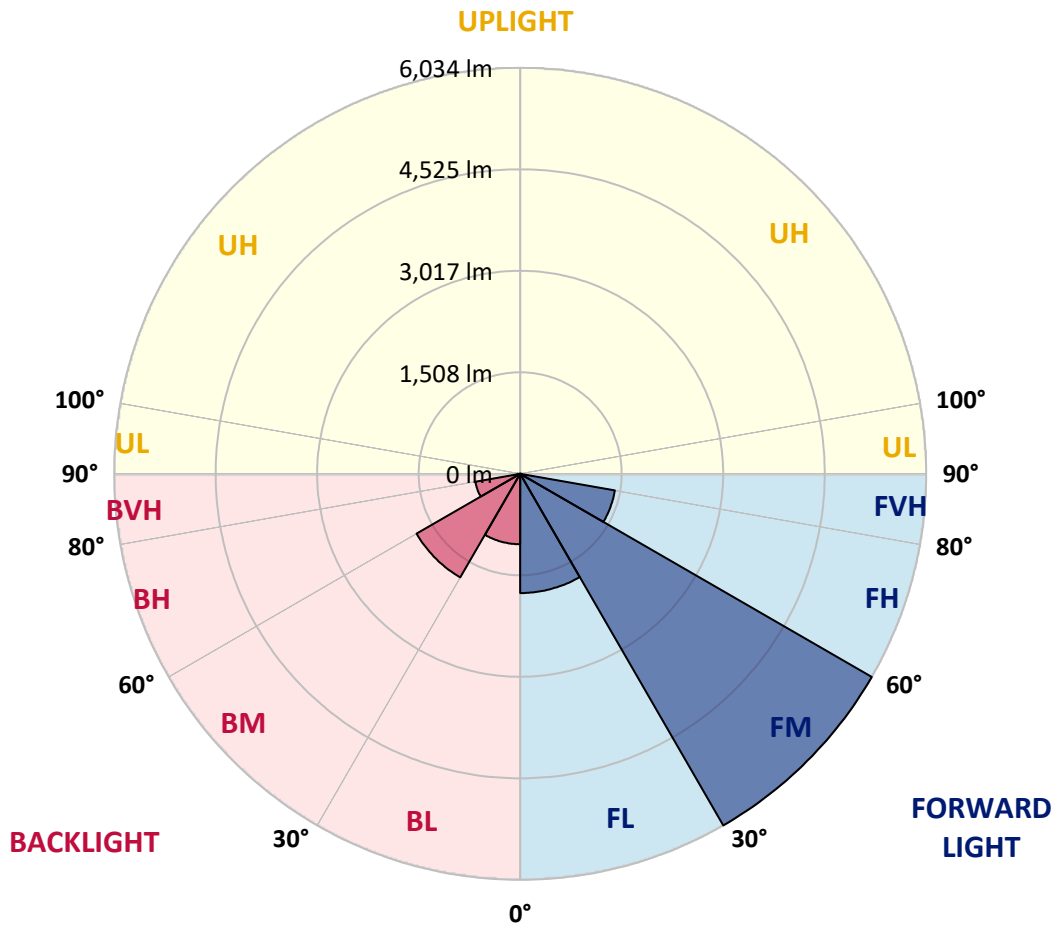
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.7	13.8			
FM (30°-60°)	6033.5	47.1			
FH (60°-80°)	1428.8	11.2			G1/1800
FVH (80°-90°)	24.8	0.2			G1/100
BL (0°-30°)	1046.6	8.2	B3/2500		
BM (30°-60°)	1777.3	13.9	B2/2500		
BH (60°-80°)	676.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	40.8	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°	54°	55°	65°	75°	85°
0°	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2
2.5°	5116.7	5097.0	5100.3	5126.6	5093.7	5080.5	5080.5	5016.3	5021.3	4976.9	4965.3
5°	4998.2	4952.2	4983.4	5022.9	5029.5	5042.7	5064.1	5047.6	5001.5	4953.8	4876.5
7.5°	4688.9	4730.1	4741.6	4769.6	4828.8	4883.1	4950.5	4904.5	4902.8	4855.1	4809.0
10°	4417.5	4392.8	4455.3	4496.4	4595.2	4685.7	4789.3	4784.4	4809.0	4754.8	4675.8
12.5°	4147.7	4127.9	4157.5	4251.3	4389.5	4521.1	4644.5	4598.5	4730.1	4720.2	4550.7
15°	3861.4	3876.2	3919.0	4006.2	4187.1	4345.1	4501.4	4503.0	4619.8	4659.3	4432.3
17.5°	3660.7	3644.2	3698.5	3828.5	3989.7	4178.9	4356.6	4392.8	4572.1	4595.2	4396.1
20°	3510.9	3534.0	3604.7	3670.5	3856.4	4085.1	4285.9	4299.0	4562.3	4624.8	4338.5
22.5°	3474.8	3461.6	3484.6	3591.6	3744.6	3993.0	4248.0	4297.4	4560.6	4614.9	4229.9
25°	3436.9	3479.7	3478.0	3585.0	3696.9	3919.0	4279.3	4333.6	4647.8	4665.9	4244.7
27.5°	3522.5	3517.5	3563.6	3571.8	3710.0	3938.7	4345.1	4386.2	4792.6	4777.8	4256.2
30°	3608.0	3583.3	3611.3	3708.4	3772.5	4052.2	4526.1	4522.8	4980.1	4970.3	4292.4
32.5°	3713.3	3701.8	3719.9	3805.4	3914.0	4203.6	4679.1	4776.1	5171.0	5233.5	4417.5
35°	3733.1	3780.8	3823.5	3938.7	4093.4	4448.7	4967.0	5047.6	5391.5	5587.2	4656.0
37.5°	3858.1	3876.2	3976.6	4180.6	4322.1	4776.1	5149.6	5200.6	5592.2	5814.3	4907.8
40°	3991.4	4012.7	4164.1	4378.0	4572.1	4990.0	5320.7	5337.2	5656.3	5988.7	5072.3
42.5°	4172.3	4192.1	4341.8	4610.0	4869.9	5172.6	5472.1	5490.2	5651.4	6189.4	5333.9
45°	4359.9	4407.6	4583.6	4888.0	5121.6	5386.5	5506.6	5580.7	5697.5	6368.7	5546.1
47.5°	4623.1	4667.6	4812.3	5110.1	5383.2	5574.1	5666.2	5738.6	5807.7	6525.0	5682.7
50°	4902.8	4911.0	5087.1	5356.9	5557.6	5786.3	5964.0	5988.7	5952.5	6706.0	5914.6
52.5°	5108.5	5134.8	5271.4	5534.6	5834.0	6115.4	6358.9	6385.2	6314.4	6773.5	5993.6
55°	4767.9	4753.1	4975.2	5325.7	6019.9	6605.6	6959.4	6979.1	6577.7	6982.4	6251.9
57.5°	3685.3	3756.1	3945.3	4368.1	5348.7	6822.8	7423.3	7352.6	6893.6	7087.7	6416.4
60°	2678.5	2662.0	2788.7	3071.7	4030.8	5880.1	7018.6	7091.0	6635.3	6388.5	5291.1
62.5°	2181.6	2158.6	2168.4	2178.3	2601.1	3902.5	5195.7	5194.0	5110.1	4591.9	3568.5
65°	1744.0	1798.3	1803.2	1877.2	1931.5	2331.3	3010.8	3172.0	2762.4	2265.5	1643.6
67.5°	1314.5	1294.8	1360.6	1623.9	1725.9	1683.1	1643.6	1661.7	1181.3	852.2	802.9
70°	774.9	766.7	845.7	1131.9	1421.5	1337.6	1238.9	1240.5	811.1	595.6	663.0
72.5°	424.5	422.8	439.3	574.2	807.8	839.1	743.6	766.7	483.7	482.1	518.3
75°	236.9	232.0	227.0	253.4	291.2	307.7	314.2	317.5	332.3	371.8	386.6
77.5°	87.2	83.9	83.9	97.1	123.4	154.7	195.8	199.1	235.3	269.8	284.6
80°	29.6	32.9	44.4	60.9	82.3	110.2	133.3	136.6	166.2	189.2	194.1
82.5°	18.1	19.7	29.6	42.8	59.2	77.3	98.7	100.4	123.4	138.2	144.8
85°	8.2	9.9	16.5	26.3	37.8	51.0	52.6	52.6	51.0	52.6	49.4
87.5°	0.0	0.0	3.3	3.3	3.3	4.9	6.6	4.9	8.2	9.9	9.9
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°	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2
2.5°	4930.8	4912.7	4856.8	4807.4	4792.6	4726.8	4629.7	4641.2	4570.5	4603.4	4568.8
5°	4863.3	4802.5	4659.3	4598.5	4438.9	4366.5	4317.1	4193.7	4136.1	4124.6	4075.3
7.5°	4690.6	4652.7	4473.4	4308.9	4139.4	3994.6	3808.7	3682.1	3591.6	3566.9	3494.5
10°	4554.0	4470.1	4221.7	3971.6	3729.8	3478.0	3236.2	3047.0	2954.9	2847.9	2811.7
12.5°	4419.1	4292.4	3956.8	3636.0	3323.4	3005.9	2713.0	2482.7	2282.0	2234.2	2217.8
15°	4335.2	4114.8	3719.9	3333.3	2889.0	2474.4	2181.6	2030.2	1906.8	1855.8	1892.0
17.5°	4225.0	3968.3	3492.8	2977.9	2489.3	2107.6	1862.4	1768.6	1724.2	1729.1	1714.3
20°	4086.8	3830.1	3195.1	2655.4	2132.2	1827.9	1688.0	1653.5	1660.0	1671.6	1666.6
22.5°	3988.1	3662.3	2979.5	2326.4	1842.7	1673.2	1615.6	1590.9	1612.3	1622.2	1614.0
25°	3912.4	3519.2	2717.9	2035.2	1674.9	1586.0	1559.7	1558.0	1590.9	1604.1	1595.9
27.5°	3843.3	3385.9	2458.0	1813.1	1563.0	1518.6	1510.3	1530.1	1551.5	1564.6	1576.1
30°	3802.2	3283.9	2214.5	1627.1	1507.0	1485.7	1470.8	1488.9	1500.5	1513.6	1507.0
32.5°	3841.6	3211.5	1979.2	1521.8	1461.0	1439.6	1459.3	1447.8	1467.6	1479.1	1461.0
35°	3965.0	3147.3	1811.4	1465.9	1408.3	1416.6	1419.8	1414.9	1423.1	1413.3	1434.7
37.5°	4086.8	3124.3	1656.8	1418.2	1383.6	1383.6	1380.4	1370.5	1386.9	1383.6	1393.5
40°	4241.4	3139.1	1525.1	1367.2	1360.6	1357.3	1344.2	1342.5	1335.9	1337.6	1340.9
42.5°	4376.3	3172.0	1449.5	1334.3	1339.2	1345.8	1321.1	1301.4	1309.6	1293.2	1293.2
45°	4519.5	3201.6	1382.0	1311.3	1306.3	1304.7	1284.9	1273.4	1266.8	1268.5	1283.3
47.5°	4744.9	3244.4	1331.0	1280.0	1283.3	1258.6	1253.7	1238.9	1245.4	1255.3	1257.0
50°	4904.5	3334.9	1291.5	1243.8	1255.3	1238.9	1209.3	1202.7	1202.7	1219.1	1215.8
52.5°	5016.3	3461.6	1253.7	1204.3	1209.3	1196.1	1186.2	1171.4	1161.5	1184.6	1196.1
55°	5358.6	3672.2	1243.8	1171.4	1169.8	1156.6	1138.5	1123.7	1118.8	1122.1	1145.1
57.5°	5325.7	3606.4	1212.5	1113.8	1110.5	1092.4	1074.3	1069.4	1067.8	1071.1	1077.6
60°	4323.7	2663.6	1082.6	1048.0	1043.1	1039.8	1021.7	1002.0	992.1	1002.0	993.7
62.5°	2861.1	1783.4	954.2	969.0	972.3	964.1	934.5	914.8	918.0	929.6	911.5
65°	1405.0	1048.0	865.4	904.9	908.2	885.1	857.2	834.1	822.6	832.5	824.3
67.5°	802.9	801.2	793.0	834.1	832.5	809.5	765.0	745.3	725.6	728.8	723.9
70°	681.1	694.3	710.7	735.4	733.8	707.5	654.8	640.0	612.0	608.7	600.5
72.5°	536.3	559.4	595.6	613.7	598.9	566.0	531.4	506.7	482.1	467.2	472.2
75°	398.1	431.1	450.8	462.3	439.3	421.2	393.2	363.6	334.0	320.8	315.9
77.5°	289.6	299.4	317.5	325.8	311.0	292.9	276.4	246.8	218.8	200.7	195.8
80°	202.4	208.9	222.1	222.1	222.1	213.9	192.5	162.9	144.8	128.3	125.0
82.5°	141.5	148.1	161.2	154.7	153.0	143.1	130.0	106.9	87.2	75.7	72.4
85°	49.4	54.3	65.8	79.0	83.9	82.3	74.0	59.2	46.1	37.8	34.6
87.5°	11.5	11.5	13.2	11.5	11.5	13.2	11.5	11.5	11.5	8.2	6.6
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)