

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: P530039

Luminaire Tested: **GALN-SA5B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14493 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

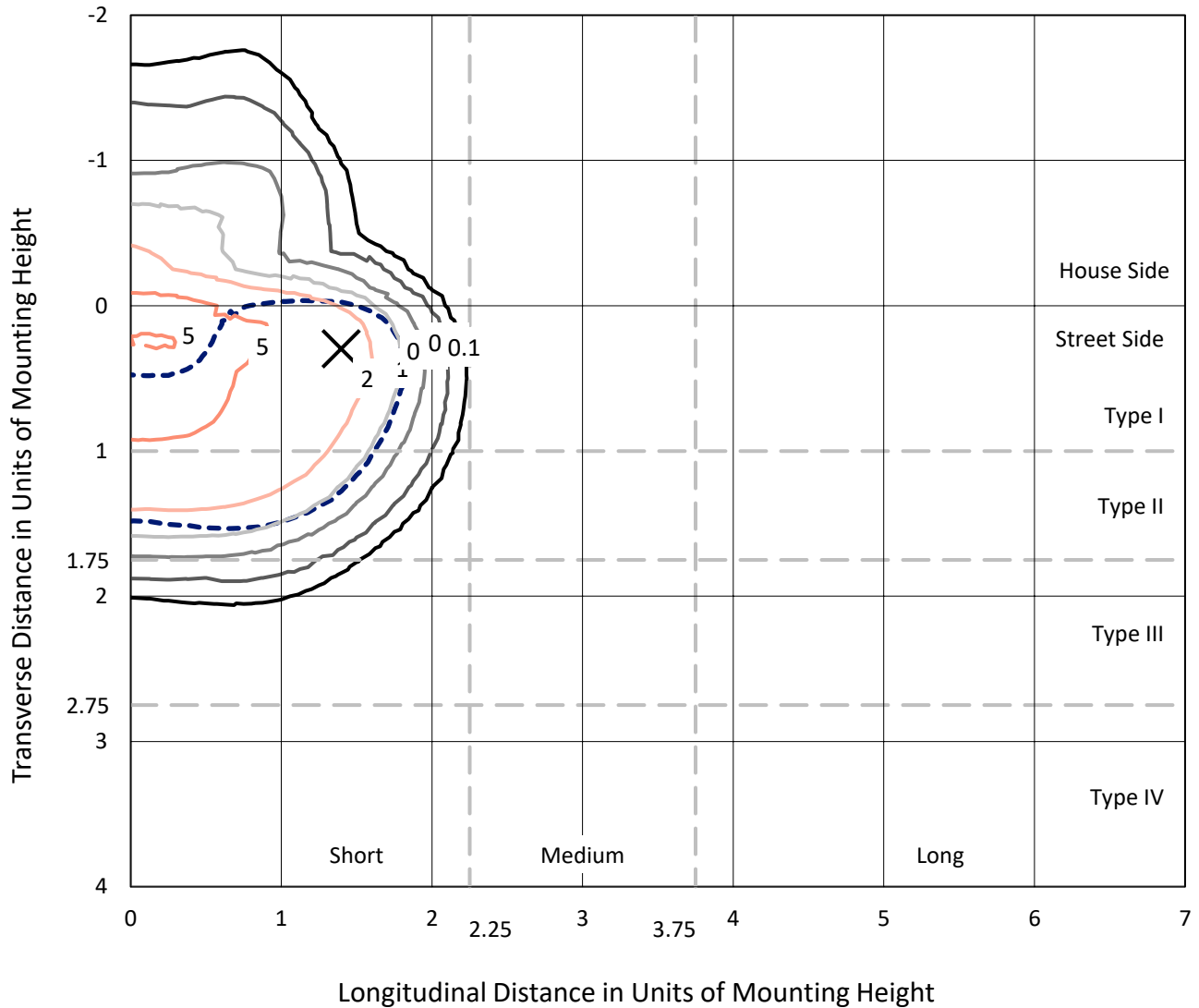
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

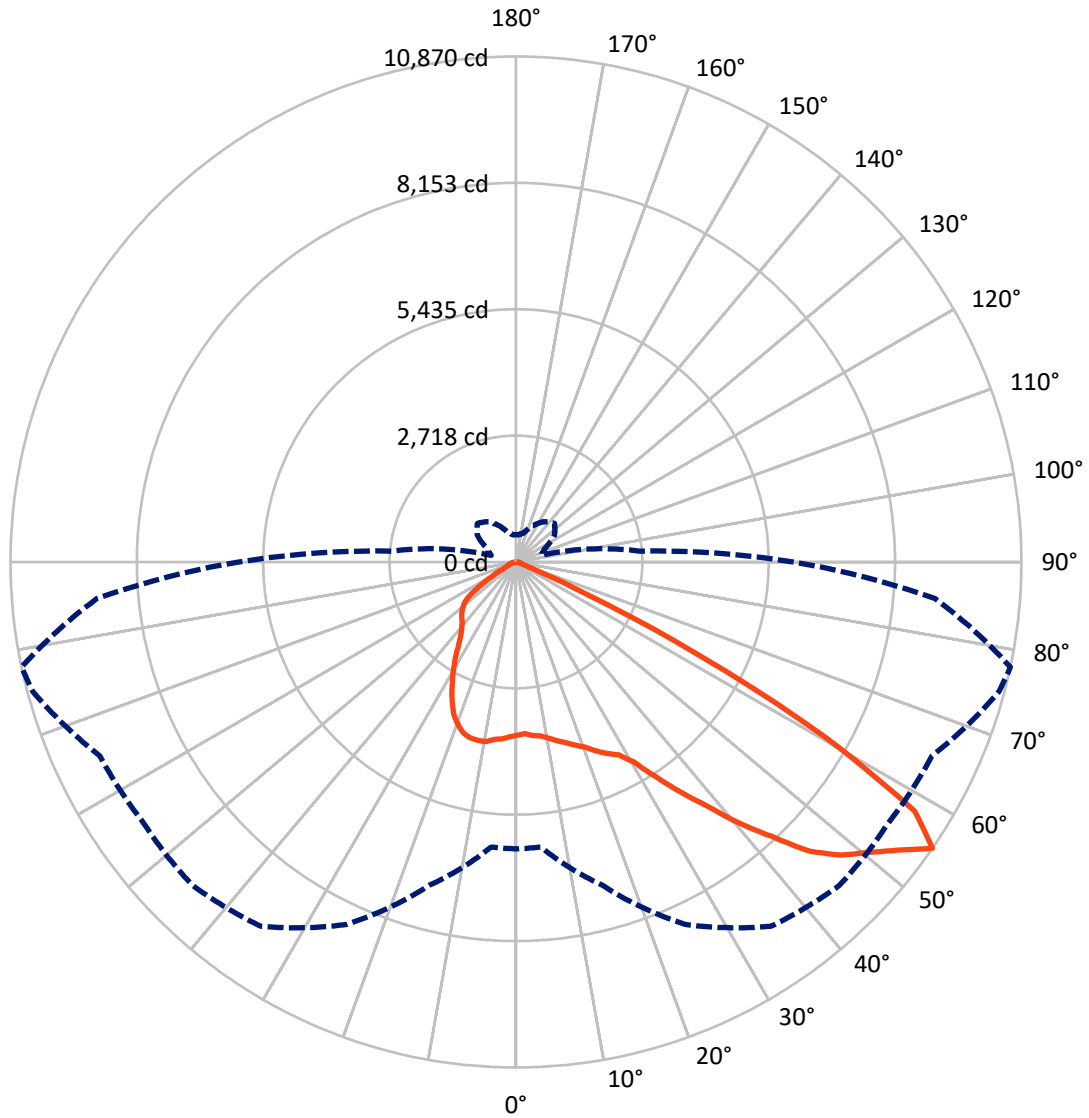
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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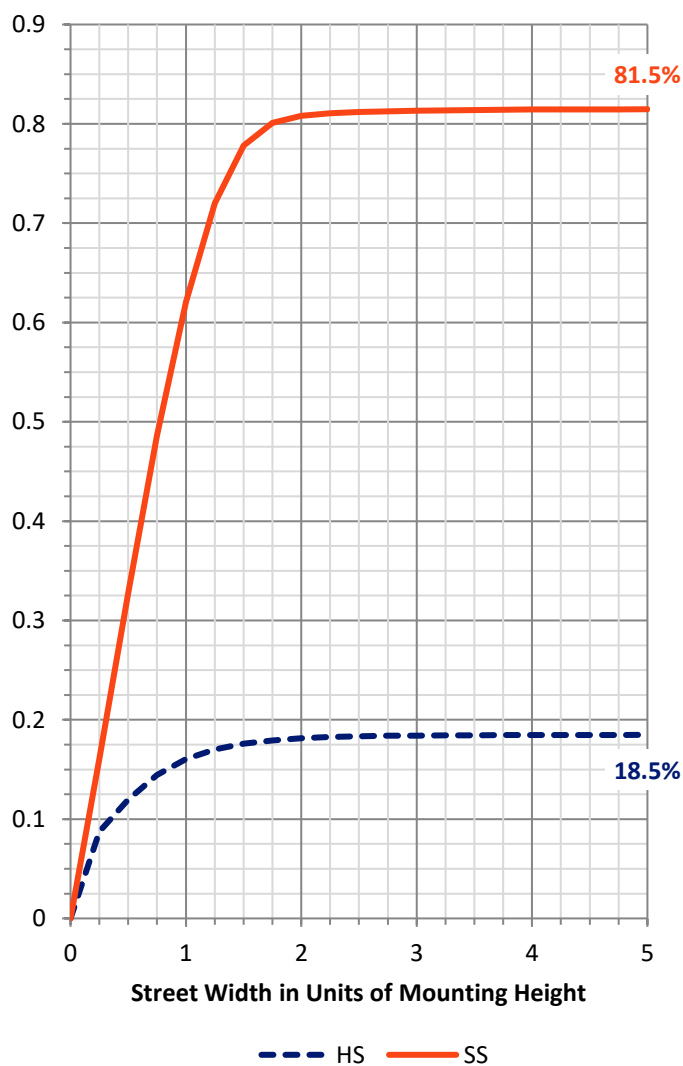
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.9	0.0	2691.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11801.1	0.0	11801.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	14493.0	0.0	14493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	2.3
10°-20°	879.3	6.1
20°-30°	1541.3	10.6
30°-40°	2541.4	17.5
40°-50°	3698.0	25.5
50°-60°	4190.3	28.9
60°-70°	1198.1	8.3
70°-80°	93.0	0.6
80°-90°	19.4	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°	14493.0	100.0
0°-180°	14493.0	100.0

Coefficient of Utilization



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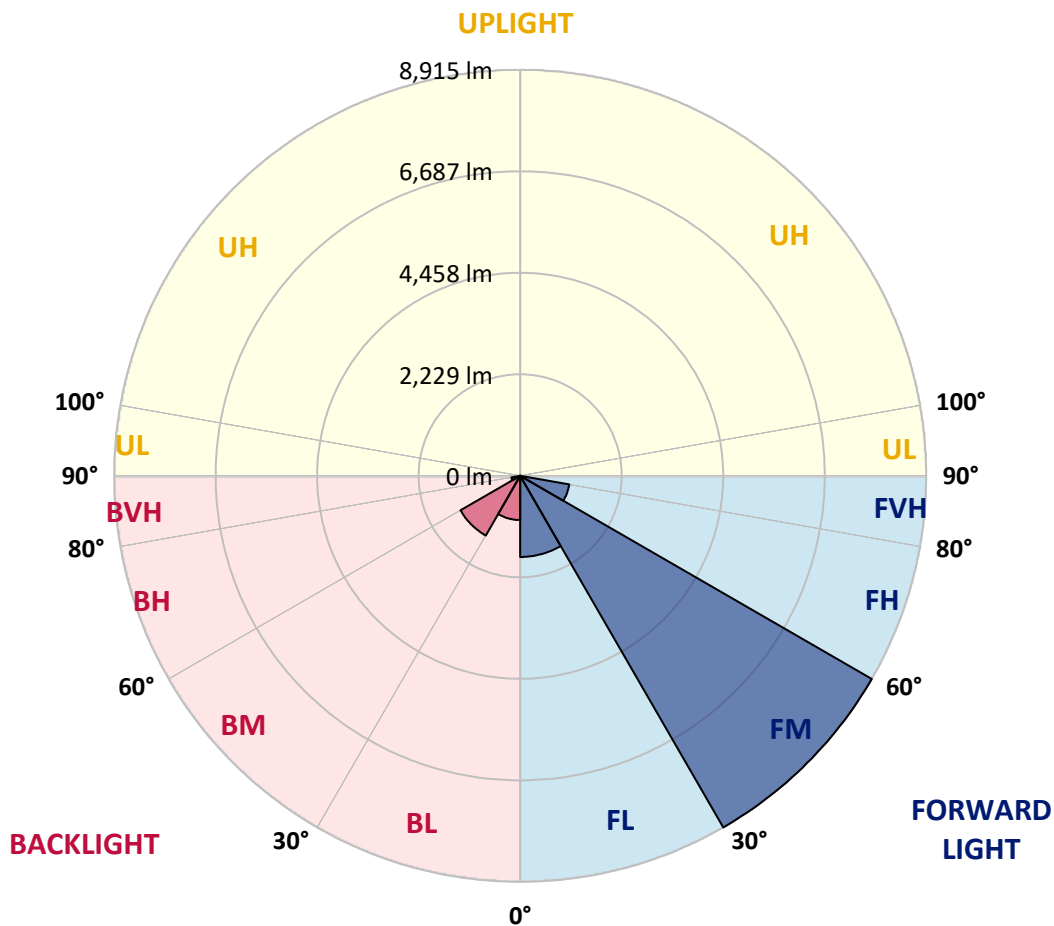
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.6	12.3			
FM (30°-60°)	8915.4	61.5			
FH (60°-80°)	1094.6	7.6			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	971.3	6.7	B2/1000		
BM (30°-60°)	1514.2	10.4	B2/2500		
BH (60°-80°)	196.5	1.4	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2
2.5°	3503.3	3537.0	3542.2	3583.6	3581.1	3651.0	3671.7	3674.3	3721.0	3697.7	3757.3
5°	3404.8	3386.7	3378.9	3451.5	3472.2	3534.4	3586.2	3617.3	3713.2	3746.9	3809.1
7.5°	3316.7	3316.7	3321.9	3386.7	3378.9	3459.3	3513.7	3609.6	3749.5	3778.0	3853.1
10°	3231.2	3200.1	3239.0	3306.4	3363.4	3399.7	3513.7	3604.4	3767.6	3850.5	3954.2
12.5°	3187.2	3202.7	3207.9	3257.1	3319.3	3428.2	3490.4	3640.6	3897.2	3946.4	4057.8
15°	3464.4	3433.4	3358.2	3314.2	3366.0	3417.8	3573.3	3726.2	3964.6	4034.5	4158.9
17.5°	3785.8	3759.8	3697.7	3578.5	3461.9	3557.7	3679.5	3819.4	4037.1	4140.8	4324.7
20°	4205.5	4164.1	4101.9	3868.7	3767.6	3664.0	3793.5	3959.4	4156.3	4249.6	4438.7
22.5°	4705.6	4705.6	4565.7	4283.3	4073.4	3974.9	4029.3	4125.2	4288.5	4415.4	4602.0
25°	5226.5	5210.9	5084.0	4791.1	4436.2	4319.5	4381.7	4449.1	4493.2	4563.1	4687.5
27.5°	5822.4	5731.8	5571.1	5247.2	4933.7	4708.2	4775.6	4716.0	4661.6	4697.9	4876.7
30°	6226.7	6283.7	6079.0	5768.0	5472.6	5221.3	5234.2	5182.4	4933.7	4985.5	5091.7
32.5°	6646.5	6682.7	6568.7	6397.7	6102.3	5809.5	5703.3	5659.2	5472.6	5496.0	5392.3
35°	6996.3	7066.2	6965.2	6890.0	6804.5	6568.7	6275.9	6418.4	6117.8	6060.8	5791.4
37.5°	7317.6	7296.8	7416.0	7338.3	7320.2	7154.3	6833.0	6861.5	6659.4	6646.5	6335.5
40°	7605.2	7610.4	7773.6	7809.9	7737.4	7442.0	6975.5	7201.0	7364.2	7379.8	6980.7
42.5°	7843.6	7913.6	8053.5	8346.3	8237.5	7745.1	7123.2	7369.4	7975.7	8071.6	7592.2
45°	8050.9	8193.4	8367.0	8628.7	8566.5	8175.3	7491.2	7716.6	8628.7	8880.1	8167.5
47.5°	8063.8	8250.4	8439.6	8828.2	8906.0	8405.9	7872.1	8266.0	9147.0	9419.0	8587.3
50°	8012.0	8110.5	8488.8	8911.2	9087.4	8781.6	8405.9	8727.2	9649.7	9820.7	8799.7
52.5°	7397.9	7473.0	8232.3	8988.9	9413.9	9206.6	9113.3	9369.8	10162.7	10289.7	8999.3
55°	6167.1	6154.1	7198.4	8597.6	9564.2	9836.2	9779.2	9869.9	10756.1	10870.1	9048.5
57.5°	4218.5	4454.3	5356.0	7159.5	8644.3	9688.5	9748.1	9597.8	10064.3	10108.3	7887.6
60°	2275.1	2373.5	3099.1	4778.2	6581.7	7895.4	8050.9	7778.8	7742.5	7618.2	5630.7
62.5°	904.3	953.6	1365.6	2365.8	3586.2	4798.9	5133.2	5021.8	4783.4	4456.9	2915.1
65°	430.1	461.2	678.9	1106.4	1591.0	2000.4	2334.7	2438.3	1798.3	1619.5	961.3
67.5°	292.8	316.1	494.9	632.3	567.5	593.4	772.2	717.8	422.4	360.2	266.9
70°	222.8	238.4	396.5	430.1	253.9	178.8	199.5	186.6	173.6	176.2	173.6
72.5°	158.1	171.0	290.2	253.9	111.4	82.9	106.2	127.0	127.0	127.0	124.4
75°	95.9	108.8	168.4	98.5	44.1	44.1	67.4	85.5	90.7	93.3	88.1
77.5°	49.2	62.2	57.0	28.5	28.5	33.7	49.2	59.6	64.8	64.8	62.2
80°	10.4	10.4	10.4	15.5	28.5	36.3	49.2	54.4	62.2	62.2	57.0
82.5°	0.0	2.6	7.8	15.5	25.9	33.7	46.6	54.4	62.2	64.8	59.6
85°	0.0	2.6	5.2	10.4	18.1	20.7	18.1	15.5	15.5	15.5	15.5
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2	3726.2
2.5°	3762.4	3770.2	3757.3	3754.7	3744.3	3775.4	3700.2	3682.1	3728.8	3684.7	3695.1
5°	3811.7	3829.8	3806.5	3767.6	3710.6	3622.5	3547.4	3448.9	3402.3	3368.6	3363.4
7.5°	3847.9	3860.9	3837.6	3713.2	3542.2	3319.3	3153.5	3031.7	2935.8	2907.3	2860.7
10°	3995.6	3998.2	3881.6	3607.0	3272.7	2979.9	2726.0	2539.4	2443.5	2383.9	2358.0
12.5°	4094.1	4088.9	3853.1	3397.1	2951.4	2562.7	2272.5	2047.1	1959.0	1930.5	1912.3
15°	4218.5	4190.0	3785.8	3182.0	2536.8	2117.0	1855.3	1699.8	1692.1	1673.9	1692.1
17.5°	4317.0	4236.6	3687.3	2790.7	2140.3	1743.9	1572.9	1583.2	1604.0	1622.1	1624.7
20°	4477.6	4311.8	3461.9	2448.7	1772.4	1495.1	1492.5	1539.2	1591.0	1611.7	1632.5
22.5°	4599.4	4342.9	3220.9	2083.3	1471.8	1394.1	1438.1	1508.1	1547.0	1567.7	1598.8
25°	4643.4	4257.4	2899.6	1718.0	1326.7	1347.4	1414.8	1461.4	1510.7	1534.0	1521.0
27.5°	4687.5	4213.3	2516.1	1414.8	1249.0	1316.3	1373.3	1420.0	1435.5	1466.6	1487.4
30°	4793.7	4060.4	2171.4	1223.1	1210.1	1295.6	1337.1	1352.6	1394.1	1412.2	1412.2
32.5°	4879.2	4000.8	1806.1	1132.4	1204.9	1306.0	1311.2	1311.2	1316.3	1303.4	1298.2
35°	5055.4	3796.1	1479.6	1077.9	1202.3	1308.6	1321.5	1277.5	1158.3	1111.6	1098.7
37.5°	5273.1	3664.0	1238.6	1065.0	1220.5	1339.7	1360.4	1194.5	1039.1	963.9	951.0
40°	5537.4	3570.7	1080.5	1059.8	1261.9	1412.2	1350.0	1129.8	927.7	818.8	813.6
42.5°	5845.8	3485.2	974.3	1057.2	1313.7	1487.4	1339.7	1075.4	813.6	741.1	751.5
45°	6091.9	3438.5	901.7	1039.1	1331.9	1531.4	1347.4	979.5	767.0	720.4	725.5
47.5°	6283.7	3340.1	842.1	1008.0	1329.3	1547.0	1277.5	940.6	743.7	756.6	769.6
50°	6288.9	3207.9	767.0	940.6	1290.4	1518.4	1197.1	904.3	738.5	792.9	818.8
52.5°	6218.9	3021.3	686.7	844.7	1199.7	1420.0	1124.6	888.8	715.2	710.0	741.1
55°	5970.1	2671.5	551.9	684.1	1013.2	1171.2	1059.8	860.3	645.2	585.6	590.8
57.5°	4824.8	1914.9	406.8	489.7	717.8	857.7	956.2	847.3	580.4	497.5	500.1
60°	2987.7	1085.7	298.0	334.3	443.1	520.8	774.8	787.7	518.2	419.8	414.6
62.5°	1534.0	536.4	230.6	235.8	272.1	305.8	531.2	660.8	469.0	399.0	399.0
65°	513.1	264.3	202.1	181.4	181.4	189.2	321.3	458.6	396.5	334.3	334.3
67.5°	220.3	196.9	176.2	158.1	145.1	137.3	181.4	266.9	295.4	253.9	243.6
70°	171.0	165.8	152.9	132.2	114.0	103.6	106.2	137.3	168.4	163.2	158.1
72.5°	127.0	127.0	121.8	103.6	88.1	75.1	70.0	72.6	80.3	82.9	85.5
75°	88.1	90.7	90.7	80.3	64.8	54.4	46.6	38.9	31.1	25.9	23.3
77.5°	59.6	62.2	67.4	59.6	49.2	36.3	28.5	20.7	13.0	5.2	5.2
80°	51.8	59.6	64.8	59.6	51.8	38.9	28.5	15.5	7.8	0.0	0.0
82.5°	54.4	59.6	67.4	57.0	49.2	36.3	28.5	18.1	7.8	2.6	0.0
85°	13.0	13.0	15.5	18.1	23.3	25.9	20.7	13.0	7.8	2.6	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	0.0	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)