

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: P527500

Luminaire Tested: **GALN-SA2C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527500
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-SA2C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 11884 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

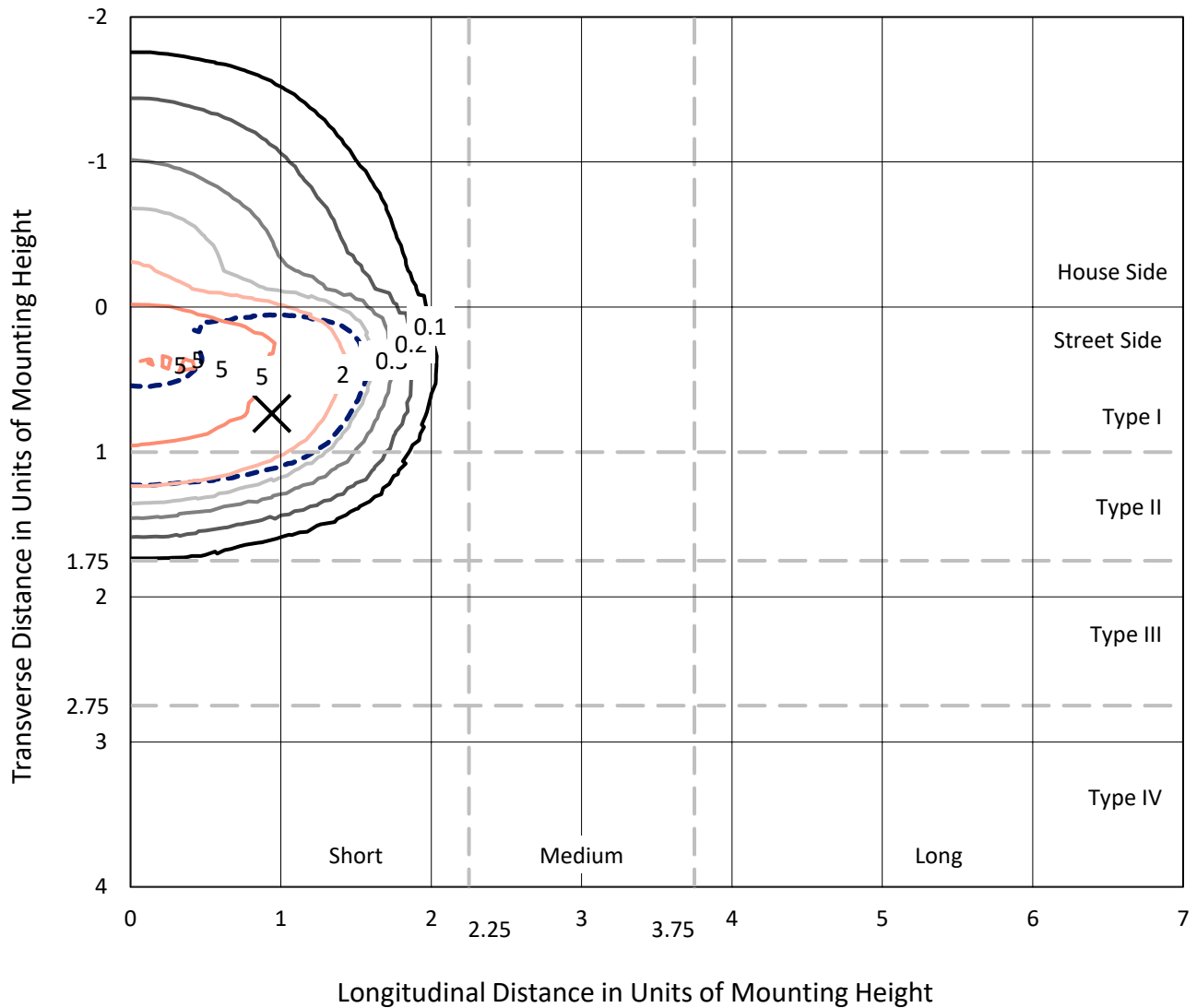
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

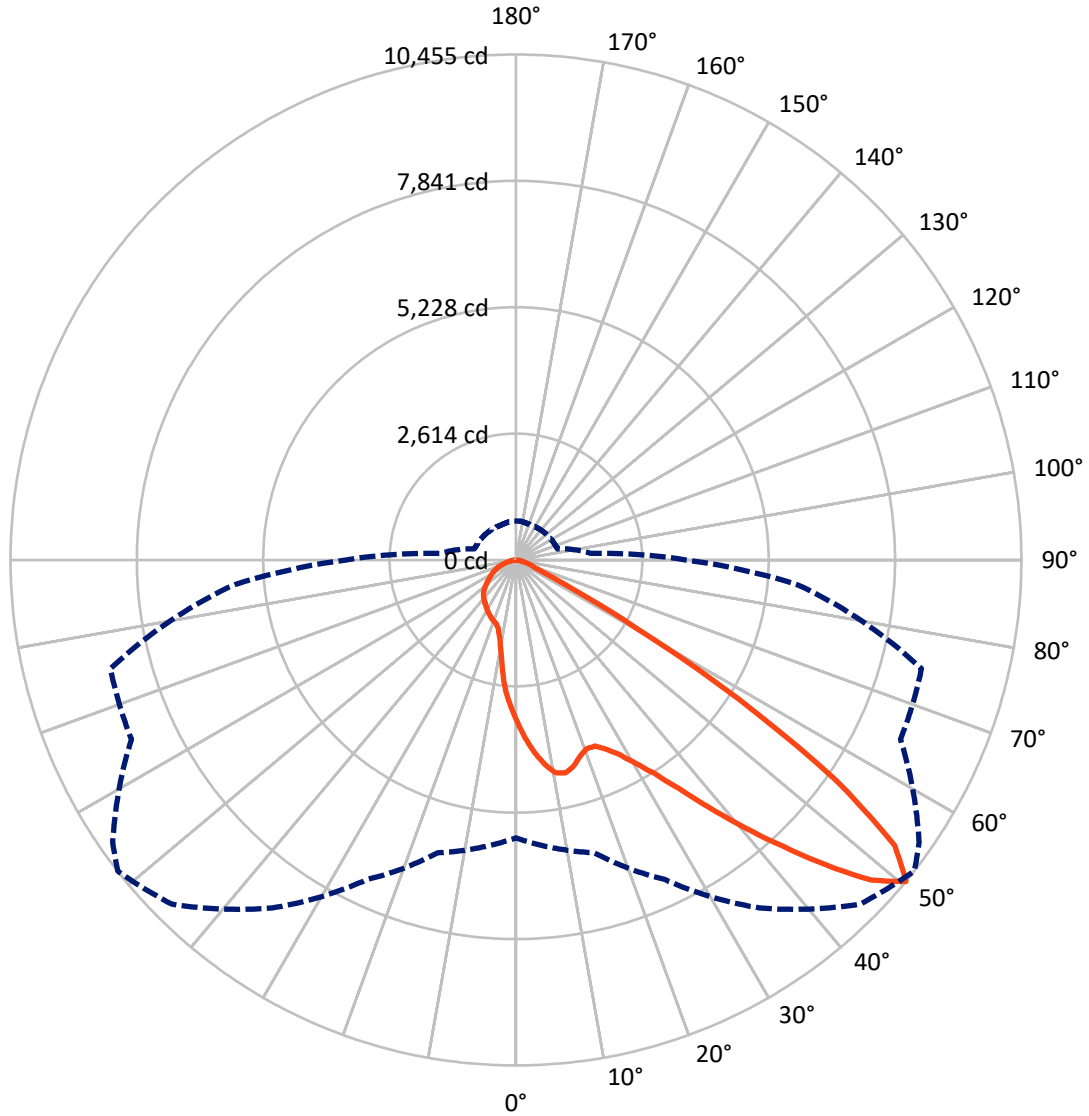
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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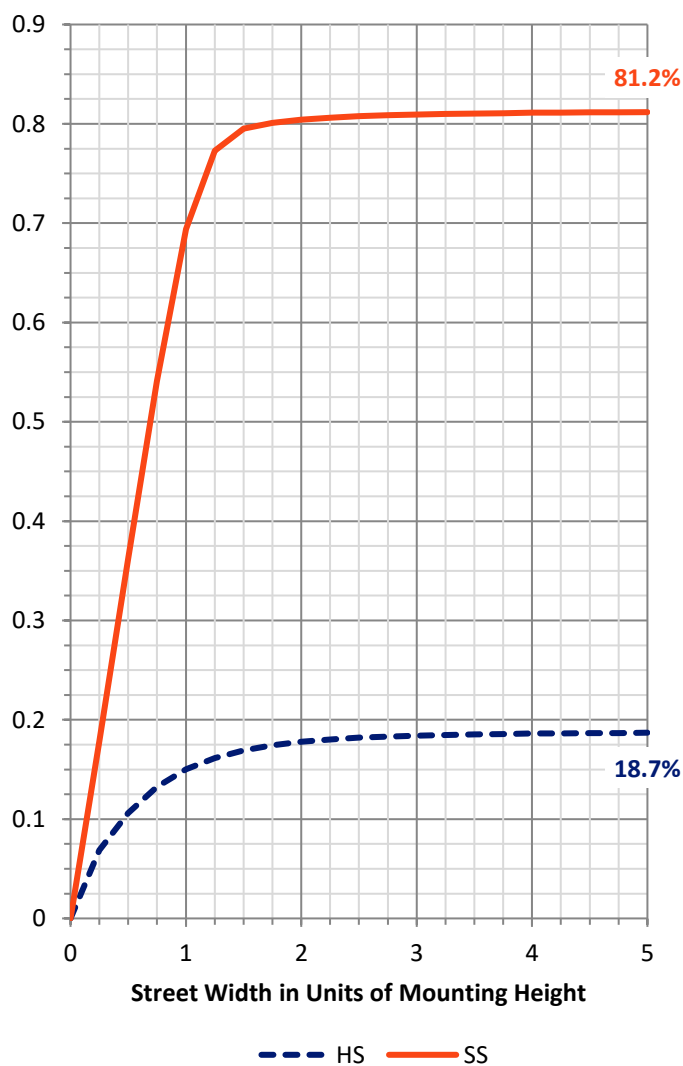
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2233.9	0.0	2233.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9650.1	0.0	9650.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11884.0	0.0	11884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	2.6
10°-20°	827.6	7.0
20°-30°	1394.0	11.7
30°-40°	2339.2	19.7
40°-50°	3578.4	30.1
50°-60°	2609.0	22.0
60°-70°	580.6	4.9
70°-80°	209.4	1.8
80°-90°	37.1	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°	11884.0	100.0
0°-180°	11884.0	100.0

Coefficient of Utilization

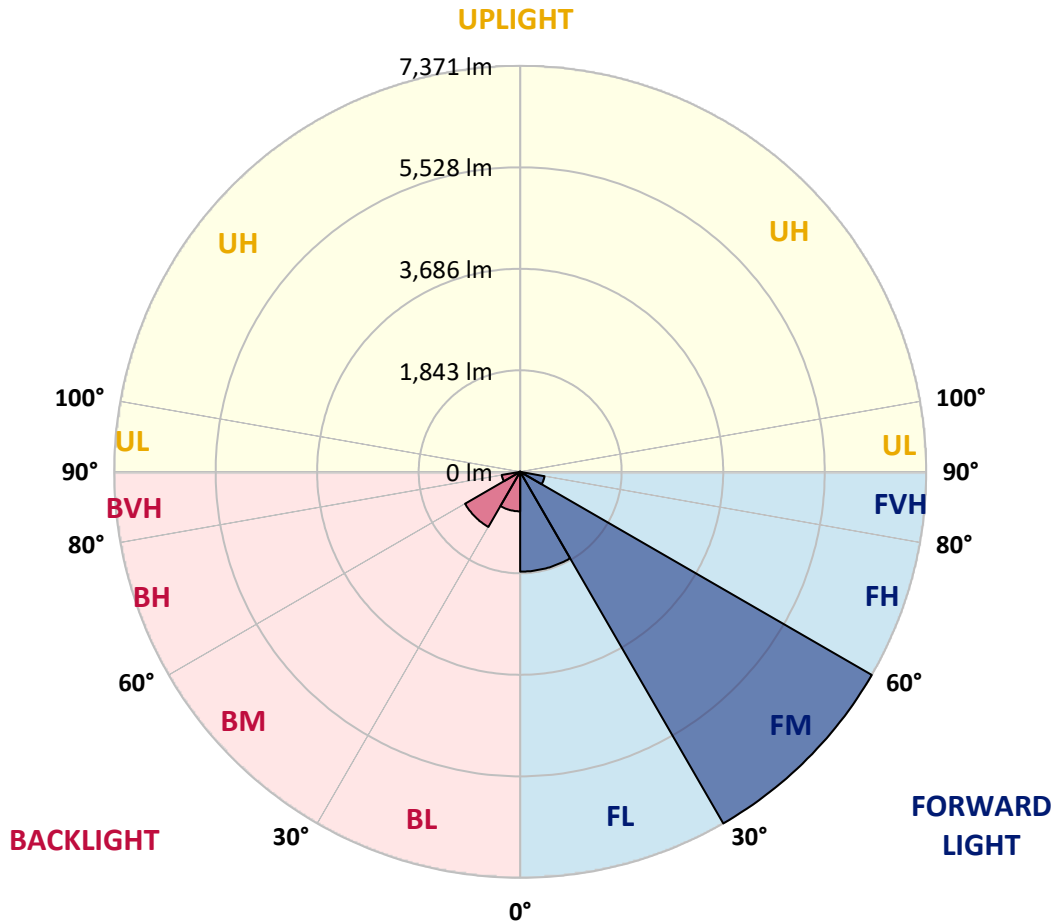


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.7	15.3			
FM (30°-60°)	7371.1	62.0			
FH (60°-80°)	449.7	3.8			G0/660
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	717.6	6.0	B2/1000		
BM (30°-60°)	1155.5	9.7	B2/2500		
BH (60°-80°)	340.3	2.9	B1/500		G1/500
BVH (80°-90°)	20.5	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9
2.5°	3944.3	3868.4	3877.0	3822.5	3763.8	3746.6	3686.5	3629.2	3586.2	3494.6	3410.1
5°	4310.9	4288.0	4253.6	4210.7	4166.3	4057.4	3995.8	3924.2	3766.7	3624.9	3484.5
7.5°	4363.9	4359.6	4378.2	4378.2	4394.0	4352.4	4265.1	4214.9	4047.4	3816.8	3556.1
10°	3991.5	4004.4	4094.6	4212.1	4375.4	4488.5	4474.2	4461.3	4278.0	3962.9	3640.6
12.5°	3695.1	3666.4	3719.4	3819.7	4064.6	4338.1	4522.9	4524.3	4477.0	4196.3	3702.2
15°	3527.5	3547.5	3561.9	3609.1	3793.9	4110.4	4435.5	4531.5	4739.1	4361.0	3799.6
17.5°	3634.9	3567.6	3564.7	3576.2	3670.7	3908.5	4273.7	4438.4	4882.4	4573.0	3919.9
20°	3775.3	3773.8	3733.7	3719.4	3718.0	3929.9	4167.7	4391.1	4958.3	4848.0	4041.7
22.5°	4021.6	4021.6	3955.7	3924.2	3856.9	4030.2	4182.0	4333.8	5084.3	5037.0	4100.4
25°	4434.1	4366.8	4253.6	4176.3	4137.6	4199.2	4333.8	4469.9	5194.6	5237.5	4222.1
27.5°	4815.0	4709.1	4653.2	4520.0	4468.4	4432.6	4555.8	4693.3	5323.5	5549.8	4288.0
30°	5247.6	5228.9	5128.7	4956.8	4829.4	4763.5	4876.6	5012.7	5559.8	5869.1	4439.8
32.5°	6020.9	5851.9	5715.9	5505.4	5297.7	5157.3	5269.0	5359.3	5952.2	6202.8	4605.9
35°	6855.9	6801.5	6566.6	6187.1	5869.1	5743.1	5809.0	5876.3	6409.1	6712.7	4885.2
37.5°	7676.6	7602.1	7408.7	7089.4	6702.7	6446.3	6493.6	6572.3	6921.8	7400.1	5226.1
40°	8266.6	8175.0	8077.6	8030.3	7646.5	7295.6	7268.4	7288.4	7615.0	8044.6	5604.2
42.5°	8309.6	8422.7	8452.8	8643.3	8553.1	8265.2	8097.6	8101.9	8276.7	8682.0	5986.6
45°	8219.4	8114.8	8336.8	8856.7	9154.6	9289.2	9007.1	8971.3	8686.3	9051.5	6177.1
47.5°	7272.7	7301.3	7676.6	8498.6	9359.4	9960.9	9895.0	9776.2	8905.4	9038.6	6147.0
50°	5748.8	5922.1	6270.1	7294.2	8786.5	10066.9	10455.0	10180.0	8775.1	8683.4	5840.5
52.5°	3828.3	3899.9	4129.0	5450.9	7065.0	8998.5	9810.5	9873.5	8654.8	8217.9	5452.4
55°	1704.3	1698.6	2020.8	2847.2	4432.6	6847.3	8016.0	8399.8	8192.2	7743.9	5074.3
57.5°	721.8	746.2	877.9	1230.3	2179.8	4131.9	5430.9	5767.4	6300.2	6358.9	3892.7
60°	488.4	491.2	527.0	615.8	912.3	1940.6	2848.6	3252.5	3633.5	3607.7	2065.2
62.5°	383.8	393.9	421.1	456.9	541.4	880.8	1274.7	1499.5	1523.9	1281.8	783.4
65°	328.0	329.4	356.6	386.7	423.9	512.7	614.4	625.9	633.0	610.1	575.7
67.5°	270.7	273.5	295.0	329.4	363.8	392.4	421.1	435.4	468.3	532.8	524.2
70°	214.8	219.1	237.7	266.4	297.9	315.1	350.9	363.8	393.9	444.0	464.0
72.5°	163.3	164.7	180.5	200.5	229.2	246.3	276.4	290.7	310.8	353.8	372.4
75°	117.4	121.7	133.2	143.2	147.5	159.0	187.6	203.4	232.0	250.6	252.1
77.5°	61.6	64.4	67.3	67.3	81.6	103.1	121.7	130.3	150.4	164.7	157.5
80°	24.3	25.8	32.9	44.4	57.3	74.5	87.4	91.7	108.8	117.4	121.7
82.5°	14.3	15.8	21.5	31.5	41.5	53.0	63.0	67.3	78.8	88.8	91.7
85°	7.2	8.6	12.9	20.1	27.2	32.9	31.5	30.1	30.1	28.6	30.1
87.5°	2.9	2.9	4.3	4.3	4.3	5.7	7.2	7.2	7.2	8.6	8.6
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°	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9
2.5°	3354.2	3296.9	3243.9	3146.5	3040.5	3010.5	2887.3	2842.9	2811.4	2774.2	2762.7
5°	3371.4	3295.5	3125.0	2928.8	2772.7	2572.2	2440.5	2298.7	2195.6	2169.8	2162.6
7.5°	3407.2	3276.9	2983.3	2686.8	2367.4	2095.3	1887.6	1775.9	1677.1	1671.4	1661.3
10°	3447.3	3221.0	2828.6	2363.1	1954.9	1702.9	1578.3	1529.6	1505.2	1499.5	1496.6
12.5°	3480.2	3209.5	2655.3	2048.0	1662.8	1511.0	1473.7	1469.4	1479.5	1482.3	1488.0
15°	3494.6	3163.7	2446.2	1765.9	1480.9	1425.0	1440.8	1458.0	1465.1	1483.8	1469.4
17.5°	3521.8	3105.0	2188.4	1542.5	1379.2	1389.2	1416.4	1436.5	1447.9	1460.8	1442.2
20°	3536.1	3052.0	1946.4	1409.3	1343.4	1362.0	1399.3	1415.0	1429.3	1435.1	1413.6
22.5°	3523.2	2943.2	1733.0	1301.9	1309.0	1333.4	1366.3	1383.5	1374.9	1352.0	1339.1
25°	3488.8	2789.9	1511.0	1233.1	1260.3	1303.3	1329.1	1316.2	1300.4	1287.5	1283.2
27.5°	3487.4	2602.3	1350.6	1170.1	1218.8	1277.5	1268.9	1257.5	1264.6	1254.6	1243.1
30°	3494.6	2420.4	1218.8	1134.3	1188.7	1217.4	1227.4	1215.9	1224.5	1205.9	1211.6
32.5°	3457.3	2242.8	1132.9	1092.8	1152.9	1151.5	1184.4	1193.0	1173.0	1134.3	1140.0
35°	3473.1	2099.6	1059.8	1074.1	1112.8	1112.8	1138.6	1128.6	1075.6	1052.7	1058.4
37.5°	3581.9	1959.2	1024.0	1048.4	1074.1	1085.6	1077.0	1034.0	1021.2	1021.2	1024.0
40°	3685.0	1838.9	1002.5	1042.6	1038.3	1045.5	982.5	986.8	986.8	988.2	981.1
42.5°	3776.7	1757.3	985.3	1008.3	1015.4	978.2	939.5	935.2	945.2	943.8	938.1
45°	3809.6	1690.0	961.0	969.6	975.3	913.7	895.1	886.5	898.0	902.3	908.0
47.5°	3683.6	1634.1	933.8	916.6	905.1	865.0	840.7	824.9	839.3	863.6	869.3
50°	3521.8	1561.1	890.8	857.9	833.5	816.4	799.2	783.4	793.4	810.6	806.3
52.5°	3282.6	1446.5	836.4	802.0	760.5	764.8	749.0	740.4	746.2	746.2	741.9
55°	2941.7	1188.7	744.7	720.4	686.0	697.5	700.3	688.9	677.4	687.5	678.9
57.5°	2007.9	839.3	664.5	664.5	630.2	645.9	644.5	617.3	590.1	592.9	587.2
60°	1161.5	668.8	613.0	607.3	571.4	584.3	587.2	568.6	527.0	529.9	524.2
62.5°	660.2	571.4	535.6	527.0	519.9	531.3	531.3	507.0	471.2	474.1	468.3
65°	561.4	529.9	478.4	476.9	474.1	476.9	465.5	439.7	408.2	395.3	396.7
67.5°	509.9	489.8	439.7	426.8	418.2	416.8	395.3	370.9	356.6	345.2	343.7
70°	446.8	431.1	393.9	376.7	368.1	348.0	326.5	310.8	290.7	285.0	290.7
72.5°	353.8	352.3	338.0	319.4	300.8	285.0	266.4	244.9	226.3	222.0	212.0
75°	244.9	247.8	250.6	247.8	232.0	212.0	190.5	173.3	150.4	137.5	134.6
77.5°	160.4	164.7	169.0	163.3	153.2	134.6	120.3	98.8	81.6	71.6	70.2
80°	117.4	123.2	126.0	121.7	110.3	96.0	80.2	63.0	50.1	41.5	41.5
82.5°	90.2	96.0	98.8	91.7	80.2	68.7	57.3	44.4	34.4	27.2	25.8
85°	31.5	30.1	35.8	37.2	44.4	41.5	34.4	25.8	20.1	14.3	12.9
87.5°	8.6	8.6	10.0	10.0	8.6	7.2	7.2	7.2	5.7	4.3	4.3
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)