

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: P527734

Luminaire Tested: **GALN-SA2D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527734
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-SA2D-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 13077 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

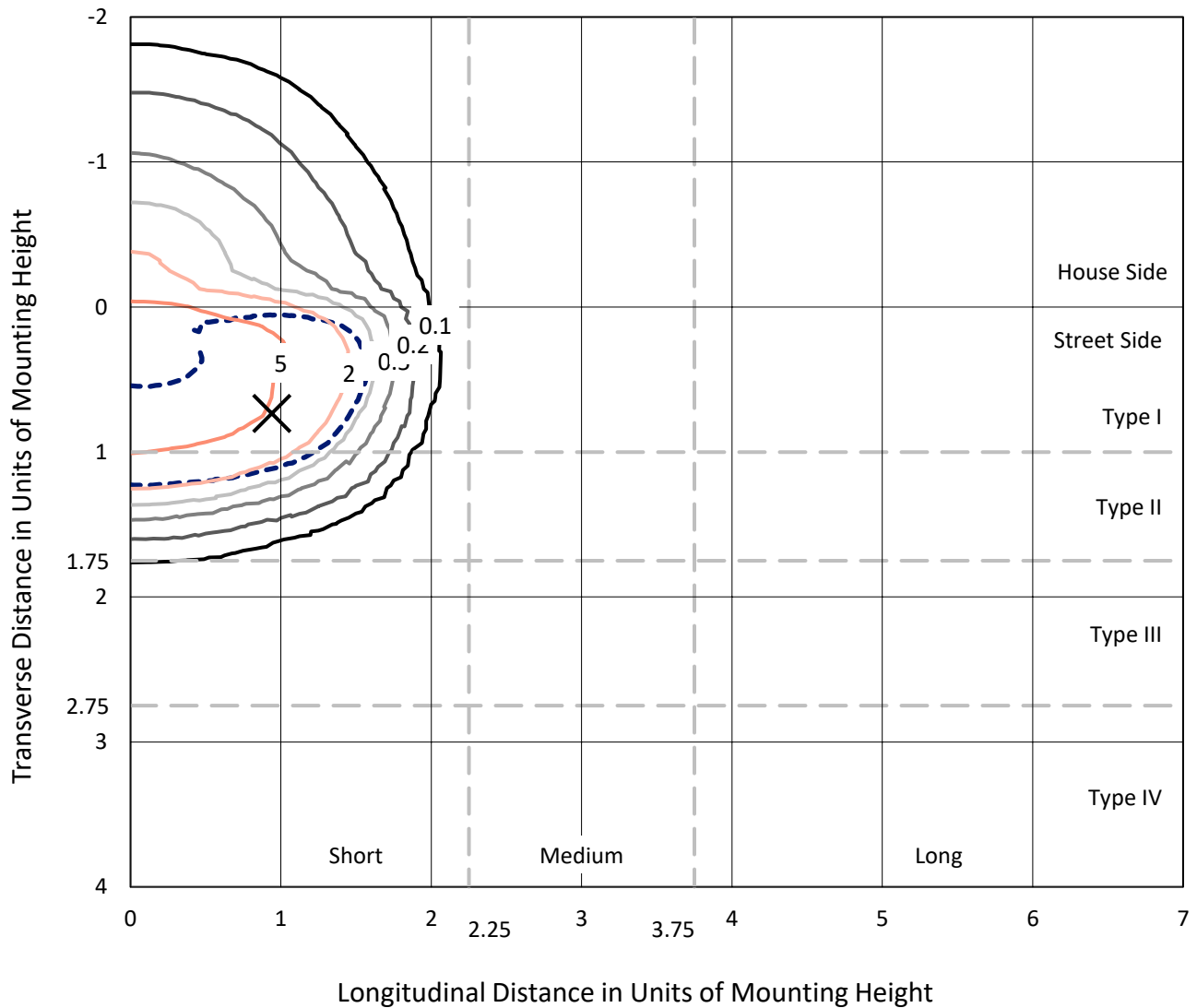
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

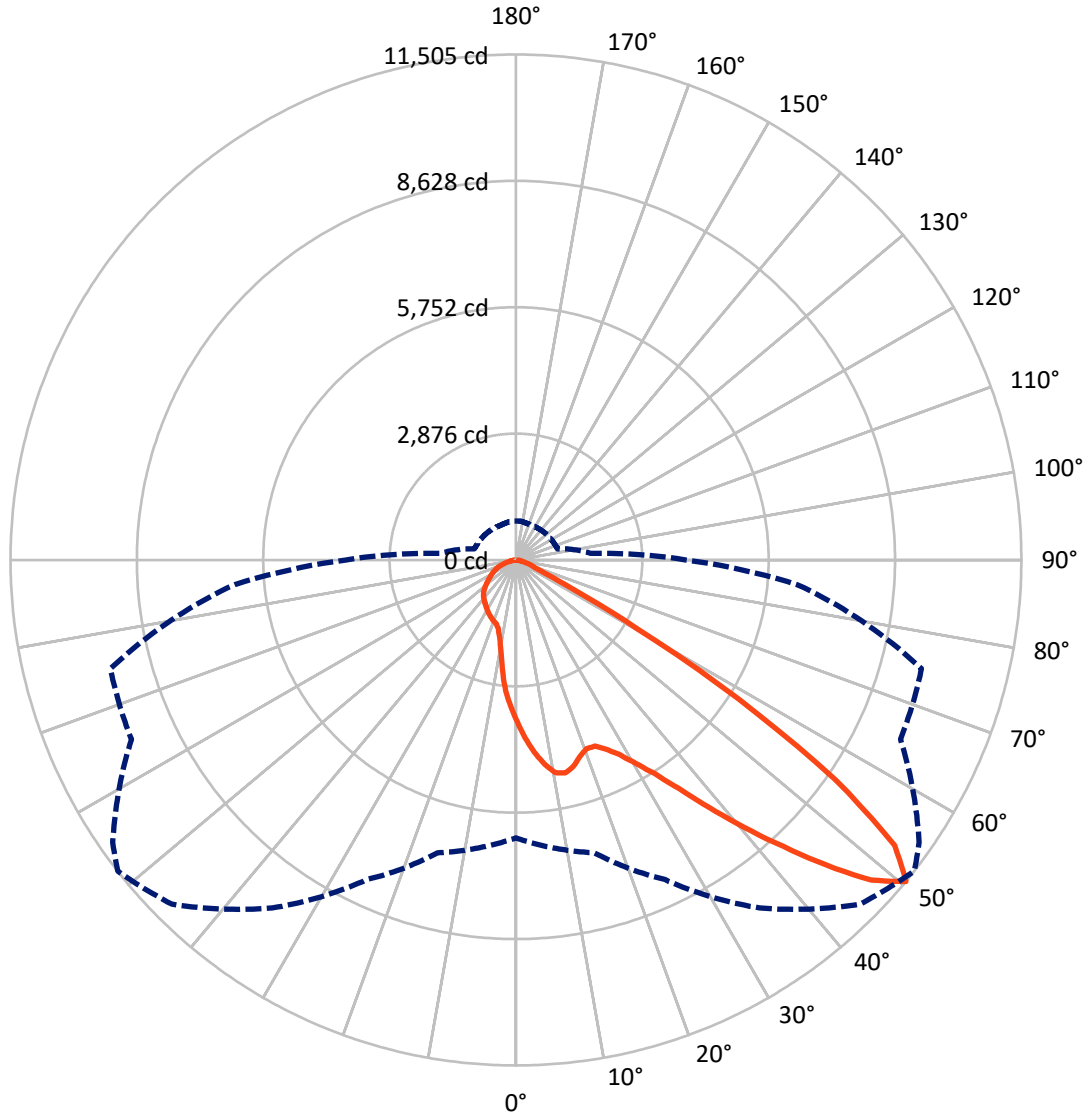
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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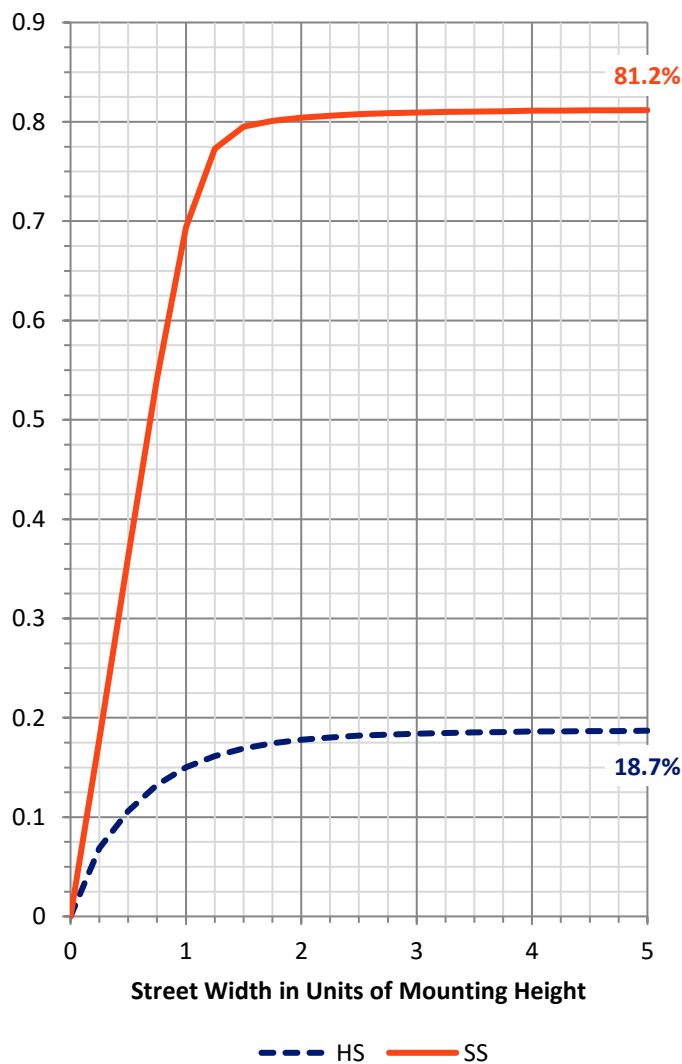
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.2	0.0	2458.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10618.8	0.0	10618.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	13077.0	0.0	13077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	2.6
10°-20°	910.6	7.0
20°-30°	1533.9	11.7
30°-40°	2574.0	19.7
40°-50°	3937.7	30.1
50°-60°	2870.9	22.0
60°-70°	638.9	4.9
70°-80°	230.4	1.8
80°-90°	40.8	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°	13077.0	100.0
0°-180°	13077.0	100.0

Coefficient of Utilization



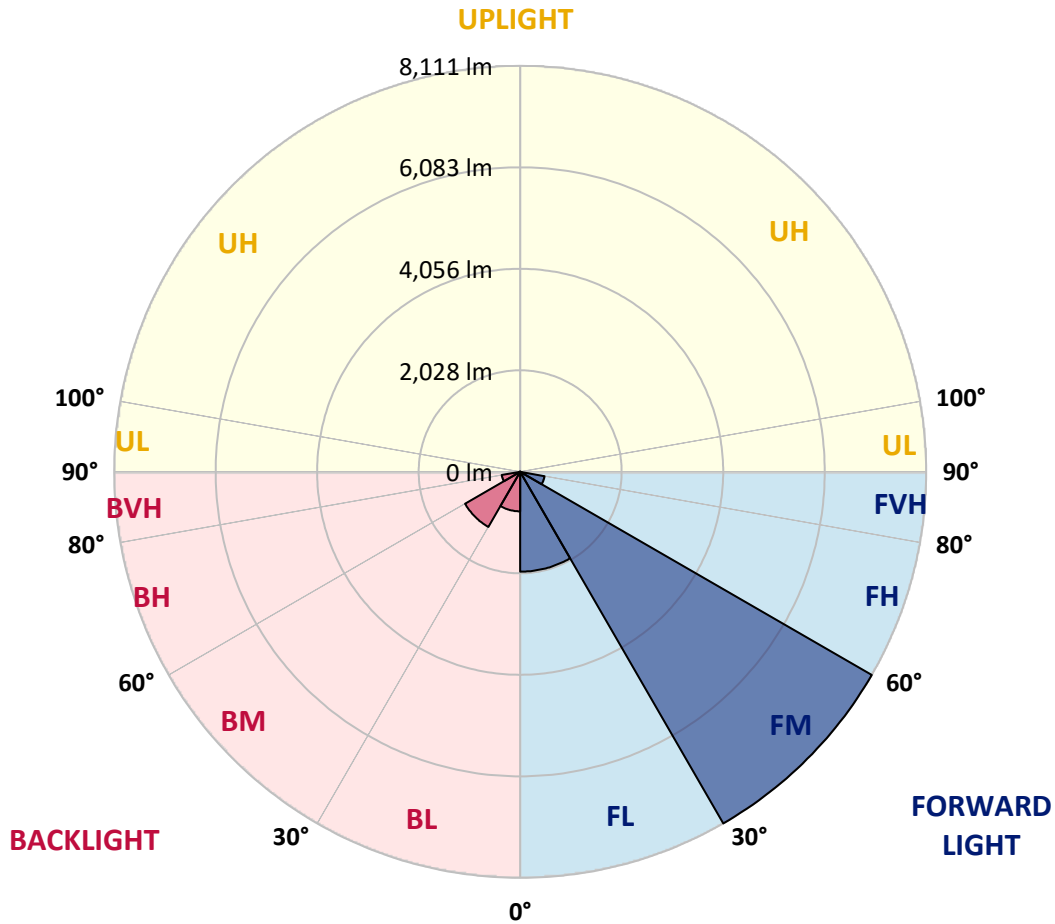
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1994.7	15.3			
FM (30°-60°)	8111.0	62.0			
FH (60°-80°)	494.8	3.8			G0/660
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	789.6	6.0	B2/1000		
BM (30°-60°)	1271.5	9.7	B2/2500		
BH (60°-80°)	374.5	2.9	B1/500		G1/500
BVH (80°-90°)	22.5	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°	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2
2.5°	4340.2	4256.7	4266.1	4206.3	4141.6	4122.7	4056.5	3993.5	3946.2	3845.4	3752.4
5°	4743.7	4718.4	4680.6	4633.3	4584.5	4464.7	4397.0	4318.2	4144.8	3988.8	3834.3
7.5°	4802.0	4797.2	4817.7	4817.7	4835.1	4789.4	4693.2	4638.1	4453.7	4200.0	3913.1
10°	4392.2	4406.4	4505.7	4634.9	4814.6	4939.1	4923.3	4909.1	4707.4	4360.7	4006.1
12.5°	4066.0	4034.5	4092.8	4203.1	4472.6	4773.6	4976.9	4978.5	4926.5	4617.6	4073.9
15°	3881.6	3903.7	3919.4	3971.4	4174.7	4523.0	4880.8	4986.4	5214.9	4798.8	4181.0
17.5°	3999.8	3925.7	3922.6	3935.2	4039.2	4300.8	4702.7	4883.9	5372.5	5032.1	4313.4
20°	4154.3	4152.7	4108.5	4092.8	4091.2	4324.5	4586.1	4831.9	5456.0	5334.7	4447.4
22.5°	4425.3	4425.3	4352.8	4318.2	4244.1	4434.8	4601.8	4768.9	5594.7	5542.7	4512.0
25°	4879.2	4805.1	4680.6	4595.5	4553.0	4620.7	4768.9	4918.6	5716.0	5763.3	4646.0
27.5°	5298.4	5181.8	5120.3	4973.8	4917.0	4877.6	5013.2	5164.4	5857.9	6106.9	4718.4
30°	5774.3	5753.9	5643.5	5454.4	5314.2	5241.7	5366.2	5515.9	6117.9	6458.3	4885.5
32.5°	6625.4	6439.4	6289.7	6058.0	5829.5	5675.1	5798.0	5897.3	6549.7	6825.5	5068.3
35°	7544.2	7484.3	7225.8	6808.2	6458.3	6319.6	6392.1	6466.2	7052.5	7386.6	5375.6
37.5°	8447.2	8365.2	8152.5	7801.0	7375.5	7093.4	7145.4	7232.1	7616.7	8143.0	5750.7
40°	9096.5	8995.6	8888.5	8836.5	8414.1	8028.0	7998.0	8020.1	8379.4	8852.2	6166.8
42.5°	9143.8	9268.3	9301.4	9511.0	9411.7	9094.9	8910.5	8915.3	9107.5	9553.5	6587.5
45°	9044.5	8929.4	9173.7	9745.8	10073.6	10221.7	9911.3	9871.9	9558.2	9960.1	6797.2
47.5°	8002.8	8034.3	8447.2	9351.8	10299.0	10960.9	10888.4	10757.6	9799.4	9945.9	6764.1
50°	6325.9	6516.6	6899.6	8026.4	9668.6	11077.5	11504.6	11202.0	9656.0	9555.1	6426.8
52.5°	4212.6	4291.4	4543.5	5998.1	7774.3	9901.8	10795.4	10864.7	9523.6	9042.9	5999.7
55°	1875.4	1869.1	2223.7	3133.0	4877.6	7534.7	8820.7	9243.1	9014.5	8521.3	5583.7
57.5°	794.3	821.1	966.1	1353.8	2398.6	4546.7	5976.1	6346.4	6932.7	6997.3	4283.5
60°	537.4	540.6	580.0	677.7	1003.9	2135.4	3134.6	3579.0	3998.2	3969.9	2272.5
62.5°	422.4	433.4	463.3	502.7	595.7	969.2	1402.6	1650.0	1676.8	1410.5	862.1
65°	360.9	362.5	392.4	425.5	466.5	564.2	676.1	688.7	696.6	671.4	633.5
67.5°	297.9	301.0	324.6	362.5	400.3	431.8	463.3	479.1	515.3	586.3	576.8
70°	236.4	241.1	261.6	293.1	327.8	346.7	386.1	400.3	433.4	488.6	510.6
72.5°	179.7	181.2	198.6	220.6	252.2	271.1	304.2	319.9	342.0	389.3	409.8
75°	129.2	134.0	146.6	157.6	162.3	174.9	206.5	223.8	255.3	275.8	277.4
77.5°	67.8	70.9	74.1	74.1	89.8	113.5	134.0	143.4	165.5	181.2	173.4
80°	26.8	28.4	36.2	48.9	63.0	82.0	96.1	100.9	119.8	129.2	134.0
82.5°	15.8	17.3	23.6	34.7	45.7	58.3	69.3	74.1	86.7	97.7	100.9
85°	7.9	9.5	14.2	22.1	29.9	36.2	34.7	33.1	33.1	31.5	33.1
87.5°	3.2	3.2	4.7	4.7	4.7	6.3	7.9	7.9	7.9	9.5	9.5
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°	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2	3686.2
2.5°	3690.9	3627.9	3569.6	3462.4	3345.8	3312.7	3177.2	3128.3	3093.6	3052.7	3040.0
5°	3709.8	3626.3	3438.8	3222.9	3051.1	2830.4	2685.4	2529.4	2416.0	2387.6	2379.7
7.5°	3749.2	3605.8	3282.7	2956.5	2605.1	2305.6	2077.1	1954.2	1845.5	1839.2	1828.1
10°	3793.4	3544.4	3112.5	2600.3	2151.2	1873.8	1736.7	1683.1	1656.3	1650.0	1646.9
12.5°	3829.6	3531.7	2921.8	2253.6	1829.7	1662.6	1621.7	1616.9	1628.0	1631.1	1637.4
15°	3845.4	3481.3	2691.8	1943.2	1629.6	1568.1	1585.4	1604.3	1612.2	1632.7	1616.9
17.5°	3875.3	3416.7	2408.1	1697.3	1517.7	1528.7	1558.6	1580.7	1593.3	1607.5	1587.0
20°	3891.1	3358.4	2141.7	1550.8	1478.3	1498.7	1539.7	1557.1	1572.8	1579.1	1555.5
22.5°	3876.9	3238.6	1906.9	1432.6	1440.4	1467.2	1503.5	1522.4	1512.9	1487.7	1473.5
25°	3839.1	3070.0	1662.6	1356.9	1386.9	1434.1	1462.5	1448.3	1431.0	1416.8	1412.1
27.5°	3837.5	2863.5	1486.1	1287.6	1341.1	1405.8	1396.3	1383.7	1391.6	1380.5	1367.9
30°	3845.4	2663.4	1341.1	1248.2	1308.1	1339.6	1350.6	1338.0	1347.5	1327.0	1333.3
32.5°	3804.4	2468.0	1246.6	1202.5	1268.7	1267.1	1303.3	1312.8	1290.7	1248.2	1254.5
35°	3821.7	2310.4	1166.2	1182.0	1224.5	1224.5	1252.9	1241.9	1183.6	1158.3	1164.6
37.5°	3941.5	2155.9	1126.8	1153.6	1182.0	1194.6	1185.1	1137.8	1123.7	1123.7	1126.8
40°	4055.0	2023.5	1103.2	1147.3	1142.6	1150.5	1081.1	1085.8	1085.8	1087.4	1079.5
42.5°	4155.8	1933.7	1084.3	1109.5	1117.4	1076.4	1033.8	1029.1	1040.1	1038.6	1032.3
45°	4192.1	1859.6	1057.5	1066.9	1073.2	1005.5	985.0	975.5	988.1	992.9	999.2
47.5°	4053.4	1798.2	1027.5	1008.6	996.0	951.9	925.1	907.8	923.5	950.3	956.6
50°	3875.3	1717.8	980.3	944.0	917.2	898.3	879.4	862.1	873.1	892.0	887.3
52.5°	3612.1	1591.7	920.4	882.5	836.8	841.6	824.2	814.8	821.1	821.1	816.4
55°	3237.0	1308.1	819.5	792.7	754.9	767.5	770.6	758.0	745.4	756.5	747.0
57.5°	2209.5	923.5	731.2	731.2	693.4	710.8	709.2	679.2	649.3	652.5	646.1
60°	1278.1	736.0	674.5	668.2	628.8	643.0	646.1	625.7	580.0	583.1	576.8
62.5°	726.5	628.8	589.4	580.0	572.1	584.7	584.7	557.9	518.5	521.6	515.3
65°	617.8	583.1	526.4	524.8	521.6	524.8	512.2	483.8	449.2	435.0	436.5
67.5°	561.0	539.0	483.8	469.6	460.2	458.6	435.0	408.2	392.4	379.8	378.2
70°	491.7	474.4	433.4	414.5	405.0	383.0	359.3	342.0	319.9	313.6	319.9
72.5°	389.3	387.7	371.9	351.4	331.0	313.6	293.1	269.5	249.0	244.3	233.2
75°	269.5	272.6	275.8	272.6	255.3	233.2	209.6	190.7	165.5	151.3	148.1
77.5°	176.5	181.2	186.0	179.7	168.6	148.1	132.4	108.7	89.8	78.8	77.2
80°	129.2	135.5	138.7	134.0	121.3	105.6	88.3	69.3	55.2	45.7	45.7
82.5°	99.3	105.6	108.7	100.9	88.3	75.6	63.0	48.9	37.8	29.9	28.4
85°	34.7	33.1	39.4	41.0	48.9	45.7	37.8	28.4	22.1	15.8	14.2
87.5°	9.5	9.5	11.0	11.0	9.5	7.9	7.9	7.9	6.3	4.7	4.7
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)