

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: P458720

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14634 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

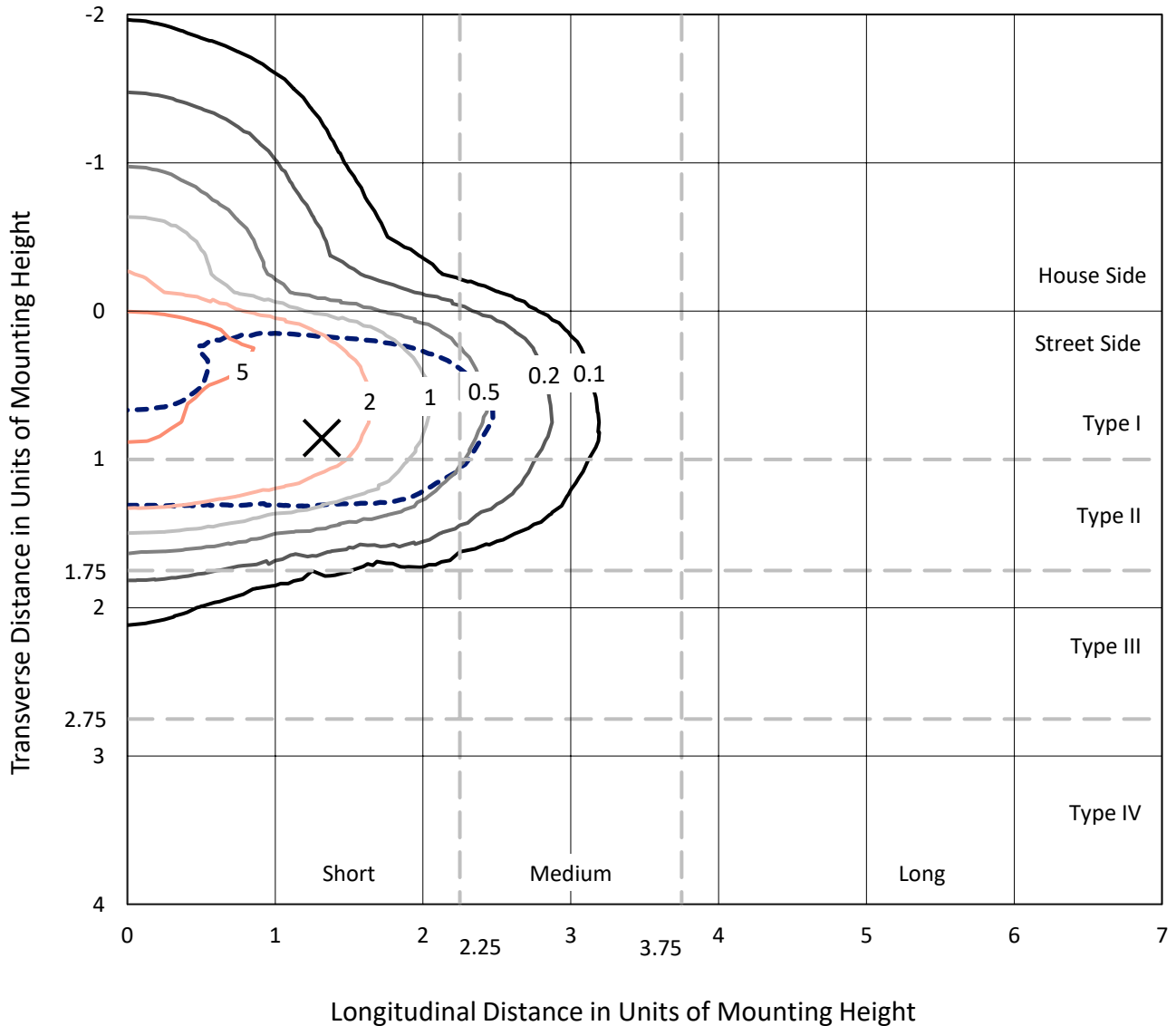
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

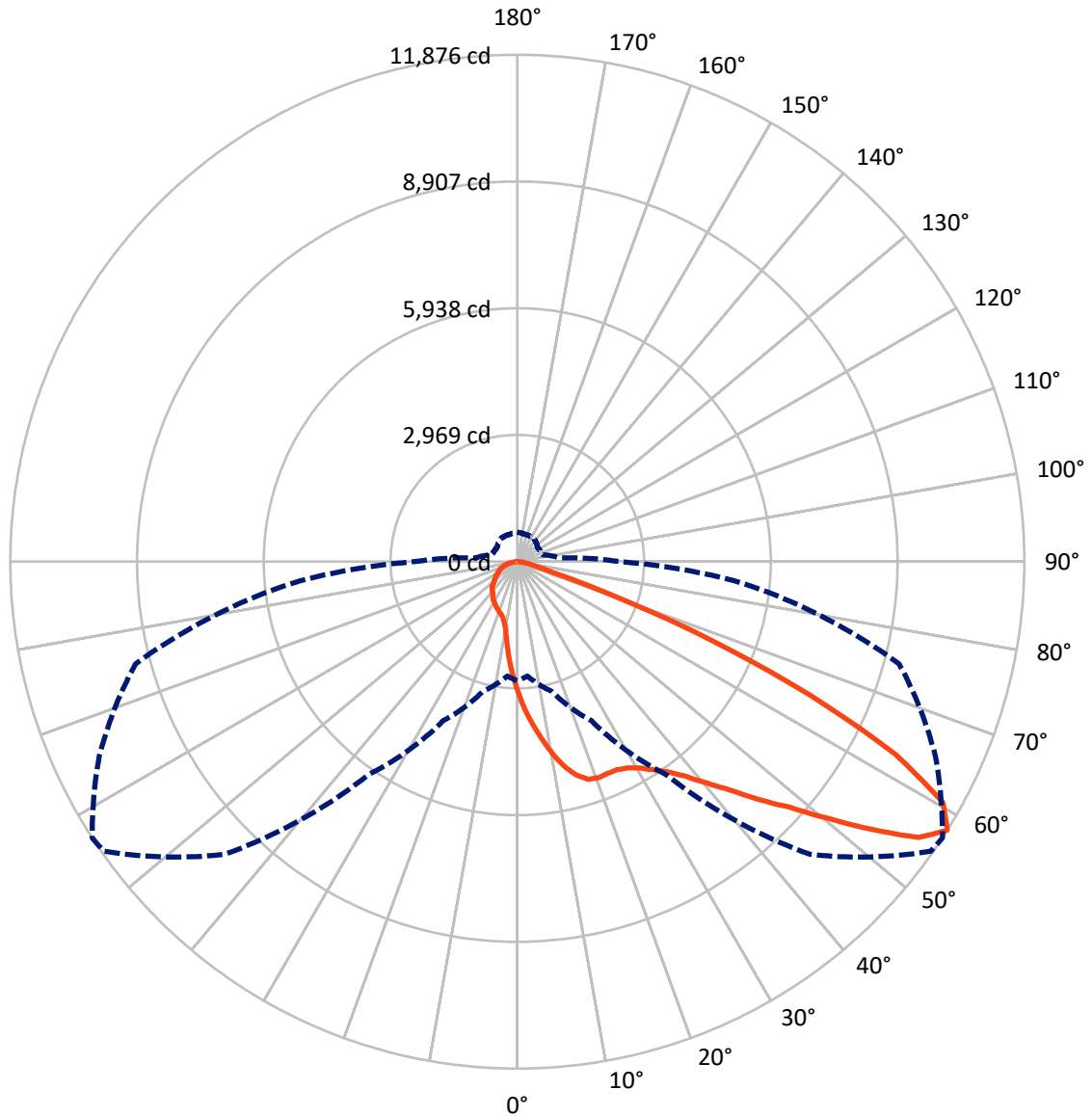
✕ Max cd
 - - - 1/2 Max cd



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 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.4	0.0	2225.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	12408.6	0.0	12408.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	14634.0	0.0	14634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	2.0
10°-20°	870.8	6.0
20°-30°	1446.0	9.9
30°-40°	2178.1	14.9
40°-50°	3270.2	22.3
50°-60°	3665.5	25.0
60°-70°	2145.2	14.7
70°-80°	634.5	4.3
80°-90°	128.3	0.9
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°	14634.0	100.0
0°-180°	14634.0	100.0

Coefficient of Utilization



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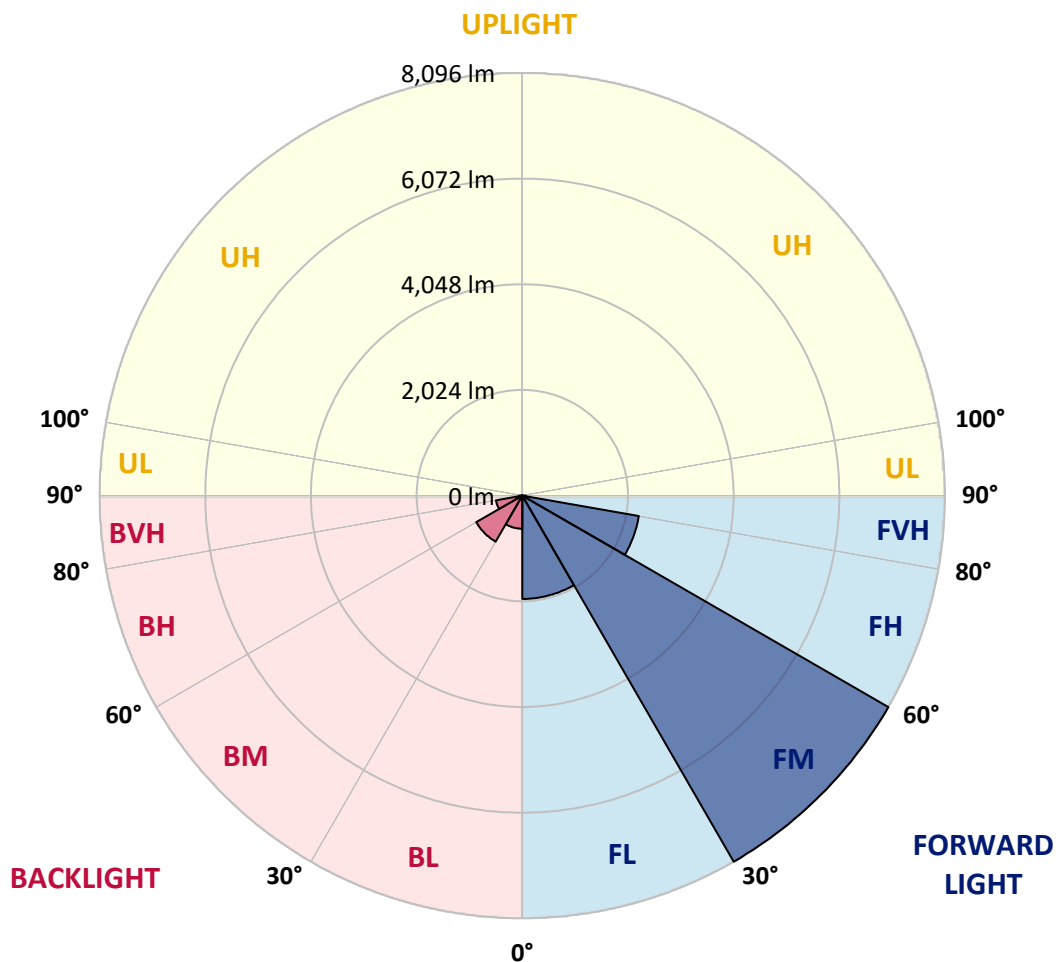
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.2	13.5			
FM	(30°-60°)	8096.2	55.3			
FH	(60°-80°)	2267.7	15.5			G2/5000
FVH	(80°-90°)	66.5	0.5			G1/100
BL	(0°-30°)	634.1	4.3	B2/1000		
BM	(30°-60°)	1017.5	7.0	B2/2500		
BH	(60°-80°)	512.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	61.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3820.2	3778.6	3745.7	3716.9	3679.2	3577.5	3475.8	3474.2	3393.3	3268.3	3140.1
5°	4442.6	4386.6	4393.8	4304.1	4214.3	4066.9	3851.5	3840.2	3668.0	3434.1	3196.2
7.5°	4848.0	4848.8	4826.3	4775.1	4678.1	4510.7	4266.4	4211.1	3971.6	3616.7	3260.3
10°	4827.1	4848.8	4886.4	4930.5	4960.1	4877.6	4654.9	4587.6	4276.0	3837.8	3331.6
12.5°	4550.0	4583.6	4637.3	4747.8	4926.5	5062.6	4986.5	4932.1	4628.5	4058.1	3410.1
15°	4376.9	4397.0	4426.6	4501.1	4693.4	5019.4	5216.4	5187.6	4960.9	4307.3	3498.2
17.5°	4324.1	4344.1	4353.7	4399.4	4536.4	4870.4	5307.0	5358.2	5255.7	4536.4	3587.1
20°	4376.9	4386.6	4386.6	4413.8	4521.1	4783.1	5303.0	5406.3	5497.6	4811.1	3670.4
22.5°	4515.5	4519.5	4513.9	4523.5	4603.6	4807.1	5265.3	5393.5	5693.1	5044.2	3735.3
25°	4740.6	4747.0	4710.2	4687.8	4746.2	4912.8	5286.1	5403.9	5846.1	5266.9	3778.6
27.5°	4996.2	5004.2	4959.3	4907.2	4934.5	5043.4	5367.8	5473.6	5960.6	5486.4	3805.8
30°	5309.4	5312.6	5237.3	5174.8	5157.2	5238.1	5507.2	5605.8	6103.2	5745.1	3846.6
32.5°	5629.8	5653.8	5556.9	5468.8	5439.1	5464.0	5713.1	5808.4	6273.0	6023.1	3912.3
35°	6065.6	6069.6	5953.4	5846.1	5748.3	5780.4	5976.6	6045.5	6507.7	6344.3	4005.3
37.5°	6609.5	6646.3	6486.1	6285.9	6165.7	6119.2	6295.5	6370.8	6837.0	6738.4	4145.4
40°	7213.5	7227.1	7090.1	6965.1	6745.7	6611.1	6732.8	6814.5	7243.1	7208.7	4308.1
42.5°	7593.2	7622.8	7633.2	7620.4	7455.4	7229.5	7276.0	7314.4	7723.7	7650.0	4474.7
45°	7721.3	7765.4	7914.4	8230.0	8247.6	8024.9	7916.8	7953.6	8247.6	8095.4	4634.1
47.5°	7509.1	7584.4	7859.1	8506.4	8991.0	9007.8	8681.8	8600.9	8725.1	8464.7	4749.4
50°	6960.3	6976.4	7396.9	8334.1	9339.5	9947.5	9610.2	9459.6	9178.4	8737.9	4828.7
52.5°	6111.2	6129.6	6482.1	7533.9	9124.8	10604.3	10696.4	10427.3	9639.1	8950.1	4880.8
55°	4536.4	4642.9	5030.6	6047.1	8107.4	10542.6	11560.0	11407.0	10195.8	9118.4	4962.5
57.5°	2789.3	2691.5	3151.3	4114.2	6097.6	9695.1	11826.7	11876.4	10808.6	9259.4	5099.5
60°	1283.3	1302.5	1492.4	2122.0	3716.9	7584.4	11139.4	11453.4	11147.4	9254.5	5133.9
62.5°	884.4	866.7	818.7	931.6	1695.0	4796.7	9409.2	9941.0	10468.1	8967.0	4997.0
65°	790.6	773.0	680.1	648.9	778.6	2090.7	6840.2	7511.5	8814.0	8241.2	4655.7
67.5°	738.6	714.5	618.4	557.5	555.9	832.3	4033.3	4841.6	6537.4	6967.5	4034.1
70°	684.1	664.9	569.5	502.3	473.4	523.1	1772.7	2320.6	4244.8	5021.0	3142.5
72.5°	629.6	607.2	521.5	449.4	411.7	391.7	679.3	883.6	2398.3	3010.4	1926.5
75°	550.3	539.1	466.2	406.9	366.1	316.4	431.0	491.8	1147.1	1382.6	966.9
77.5°	481.4	469.4	414.1	355.7	326.0	257.1	306.0	334.0	483.8	560.7	436.6
80°	352.5	364.5	349.3	314.0	290.8	201.9	205.9	229.1	287.6	318.0	266.8
82.5°	223.5	245.9	269.2	241.9	220.3	159.4	142.6	151.4	196.3	208.3	118.6
85°	93.7	95.3	156.2	147.4	125.8	94.5	85.7	90.5	104.9	109.7	55.3
87.5°	36.0	35.2	55.3	51.3	39.3	27.2	27.2	30.4	41.7	38.5	17.6
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°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3084.8	3028.0	2915.0	2774.8	2672.3	2557.0	2455.2	2382.3	2355.1	2342.3	2318.2
5°	3082.4	2970.3	2736.4	2491.3	2294.2	2092.3	1921.7	1811.2	1801.6	1727.9	1720.7
7.5°	3083.2	2911.8	2539.3	2178.9	1878.5	1671.8	1530.8	1494.0	1449.9	1438.7	1444.3
10°	3085.7	2837.3	2327.9	1869.7	1578.9	1443.5	1390.6	1376.2	1377.8	1382.6	1383.4
12.5°	3088.9	2765.2	2108.4	1634.9	1410.7	1354.6	1349.0	1361.8	1375.4	1385.8	1388.2
15°	3092.9	2682.7	1894.5	1445.9	1326.5	1321.7	1340.2	1361.8	1381.0	1396.2	1398.6
17.5°	3088.1	2586.6	1715.1	1329.7	1280.1	1303.3	1333.8	1361.0	1378.6	1393.0	1394.6
20°	3076.8	2479.3	1542.0	1248.0	1251.2	1288.9	1321.7	1347.4	1366.6	1373.8	1379.4
22.5°	3033.6	2351.1	1391.4	1184.8	1216.8	1268.9	1308.1	1323.3	1301.7	1286.5	1290.5
25°	2959.9	2184.5	1251.2	1133.5	1185.6	1240.8	1280.9	1244.0	1226.4	1220.0	1223.2
27.5°	2867.8	2001.8	1145.5	1079.8	1145.5	1209.6	1198.4	1192.0	1184.0	1173.5	1175.9
30°	2768.4	1823.2	1055.8	1038.2	1102.2	1139.1	1143.9	1154.3	1145.5	1129.5	1135.9
32.5°	2676.3	1655.0	987.7	1002.9	1071.8	1066.2	1102.2	1114.3	1073.4	1019.7	1022.1
35°	2597.8	1498.8	936.4	968.5	1019.7	1022.1	1058.2	1016.5	972.5	946.8	948.4
37.5°	2538.5	1377.0	902.8	938.8	953.3	983.7	964.5	942.8	937.2	919.6	920.4
40°	2503.3	1270.5	881.2	915.6	913.2	934.0	872.3	894.0	902.0	896.4	897.2
42.5°	2468.0	1195.2	858.7	883.6	882.8	841.9	828.3	846.7	867.5	869.9	868.3
45°	2440.0	1136.7	835.5	834.7	850.7	786.6	782.6	793.8	823.5	837.9	837.1
47.5°	2408.8	1087.8	800.3	777.8	782.6	752.2	745.8	750.6	786.6	809.9	816.3
50°	2369.5	1039.0	756.2	725.8	705.7	720.1	721.7	722.5	758.6	785.0	790.6
52.5°	2338.3	1002.1	705.7	683.3	659.3	691.3	703.3	704.9	726.6	748.2	752.2
55°	2356.7	981.3	656.1	640.0	618.4	661.7	684.9	688.1	692.9	708.9	711.3
57.5°	2412.0	986.1	616.0	595.2	579.2	626.4	665.7	668.1	664.9	684.1	687.3
60°	2428.8	983.7	586.4	545.5	535.9	588.8	637.6	642.4	641.6	669.7	675.3
62.5°	2358.3	953.3	556.7	503.9	497.5	550.3	598.4	617.6	621.6	661.7	668.9
65°	2192.5	890.8	517.5	459.8	459.8	509.5	560.7	587.2	598.4	652.1	660.1
67.5°	1973.8	817.1	477.4	422.2	420.6	470.2	520.7	547.9	565.5	638.4	643.2
70°	1638.2	717.7	427.8	381.3	381.3	426.2	471.8	504.7	530.3	612.8	612.8
72.5°	1122.3	596.8	367.7	334.8	335.6	377.3	423.8	460.6	491.0	561.5	563.1
75°	709.7	466.2	302.0	285.2	288.4	327.6	375.7	414.1	475.0	555.1	557.5
77.5°	377.3	327.6	240.3	236.3	240.3	276.4	330.0	382.9	476.6	481.4	473.4
80°	244.3	232.3	189.8	181.8	183.4	222.7	294.0	363.7	382.9	387.7	370.1
82.5°	133.0	147.4	134.6	126.6	126.6	173.8	250.7	289.2	274.8	228.3	217.9
85°	56.9	68.9	69.7	60.9	58.5	107.3	168.2	157.8	146.6	140.2	138.6
87.5°	16.0	22.4	22.4	16.8	12.8	29.6	33.6	9.6	0.0	0.8	1.6
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)