

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: P452282

Luminaire Tested: **GALN-SA3B-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452282
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-SA3B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14345 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

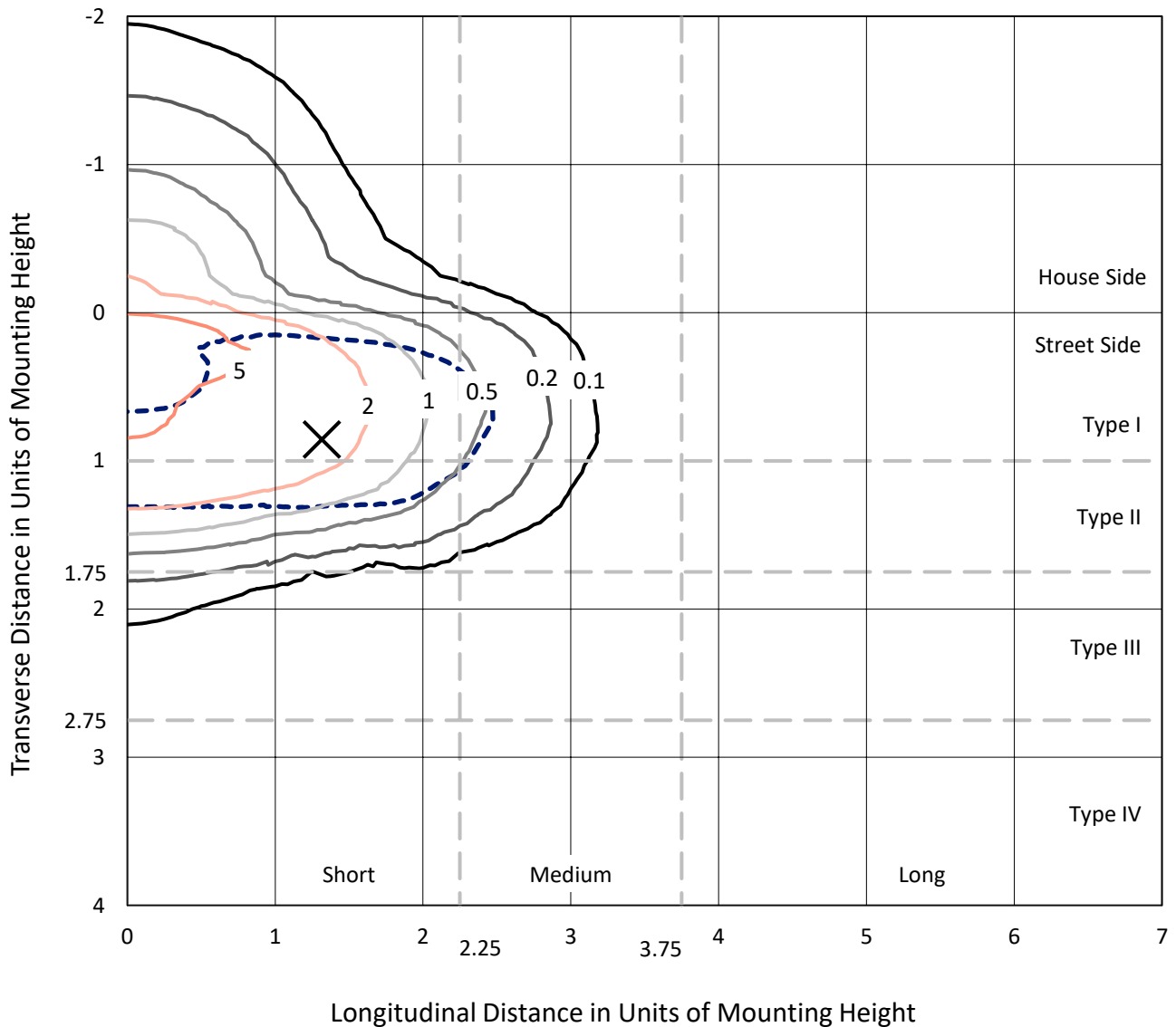
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

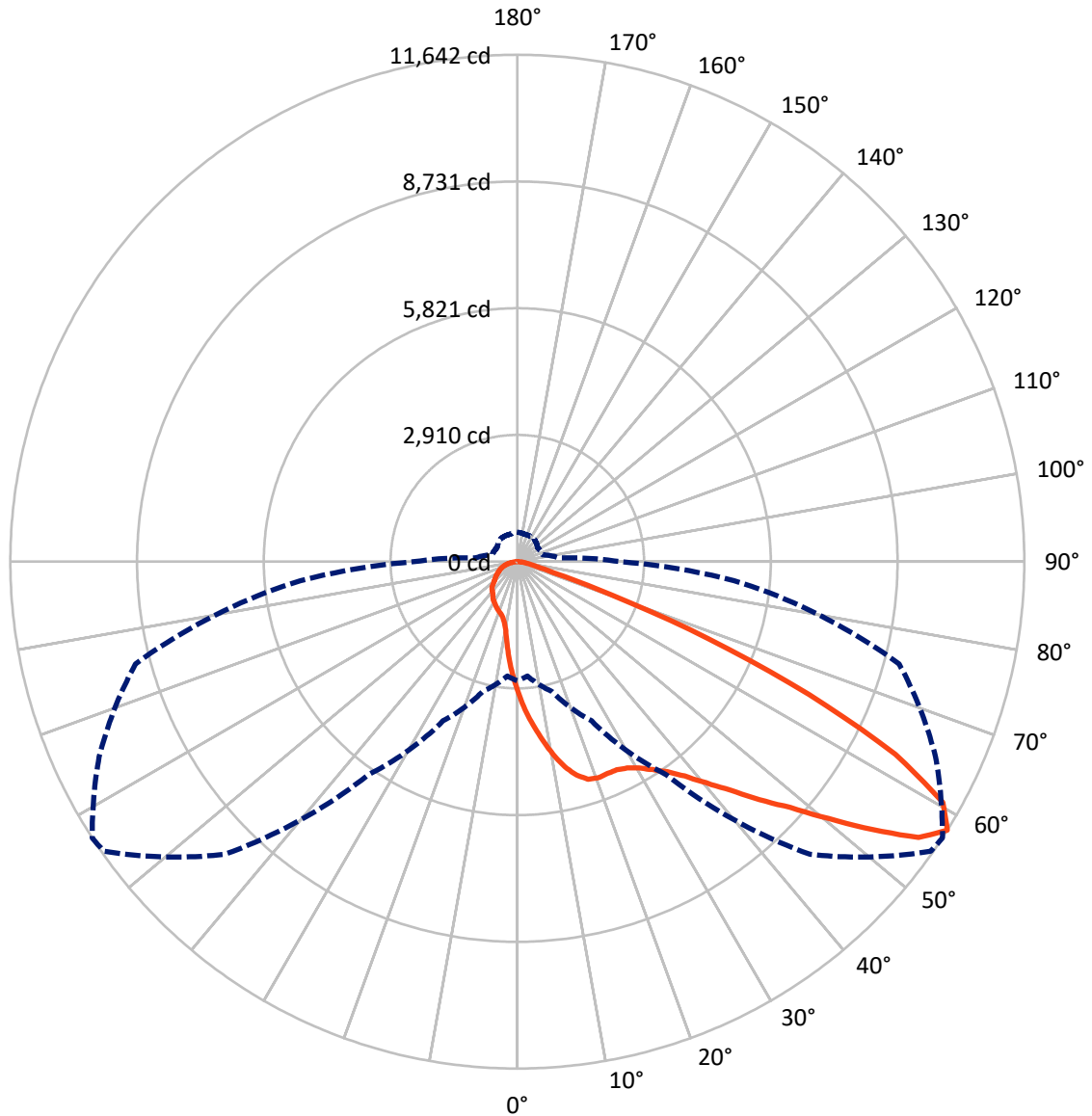
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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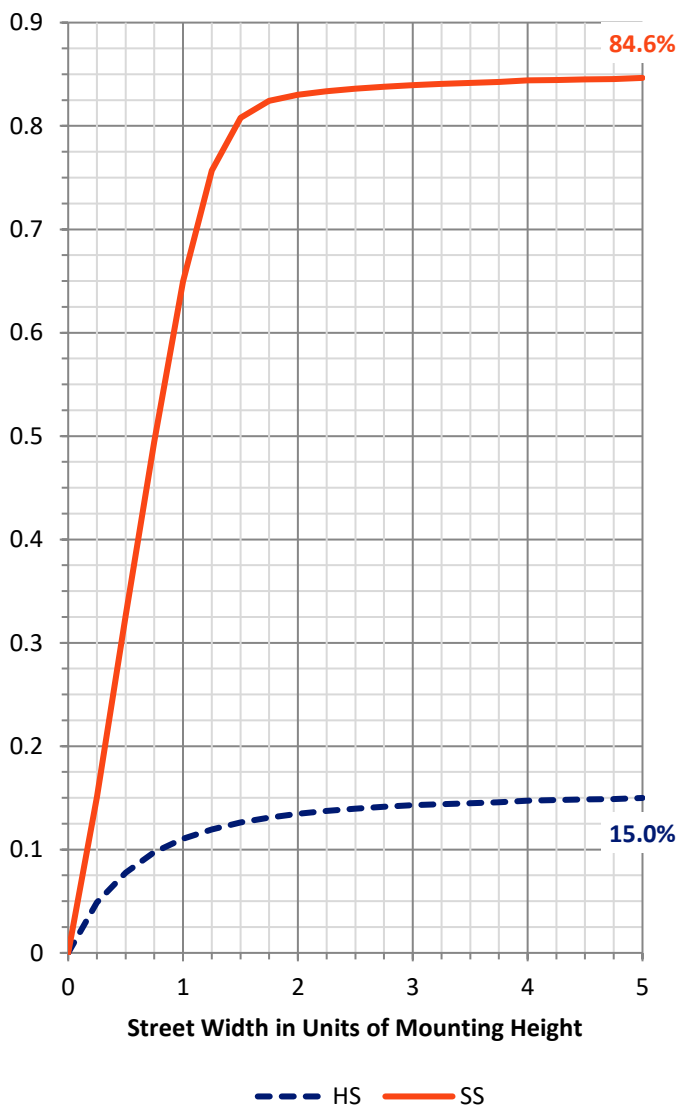
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2181.5	0.0	2181.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	12163.5	0.0	12163.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	14345.0	0.0	14345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	2.0
10°-20°	853.6	6.0
20°-30°	1417.4	9.9
30°-40°	2135.1	14.9
40°-50°	3205.6	22.3
50°-60°	3593.1	25.0
60°-70°	2102.8	14.7
70°-80°	622.0	4.3
80°-90°	125.7	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°	14345.0	100.0
0°-180°	14345.0	100.0

Coefficient of Utilization



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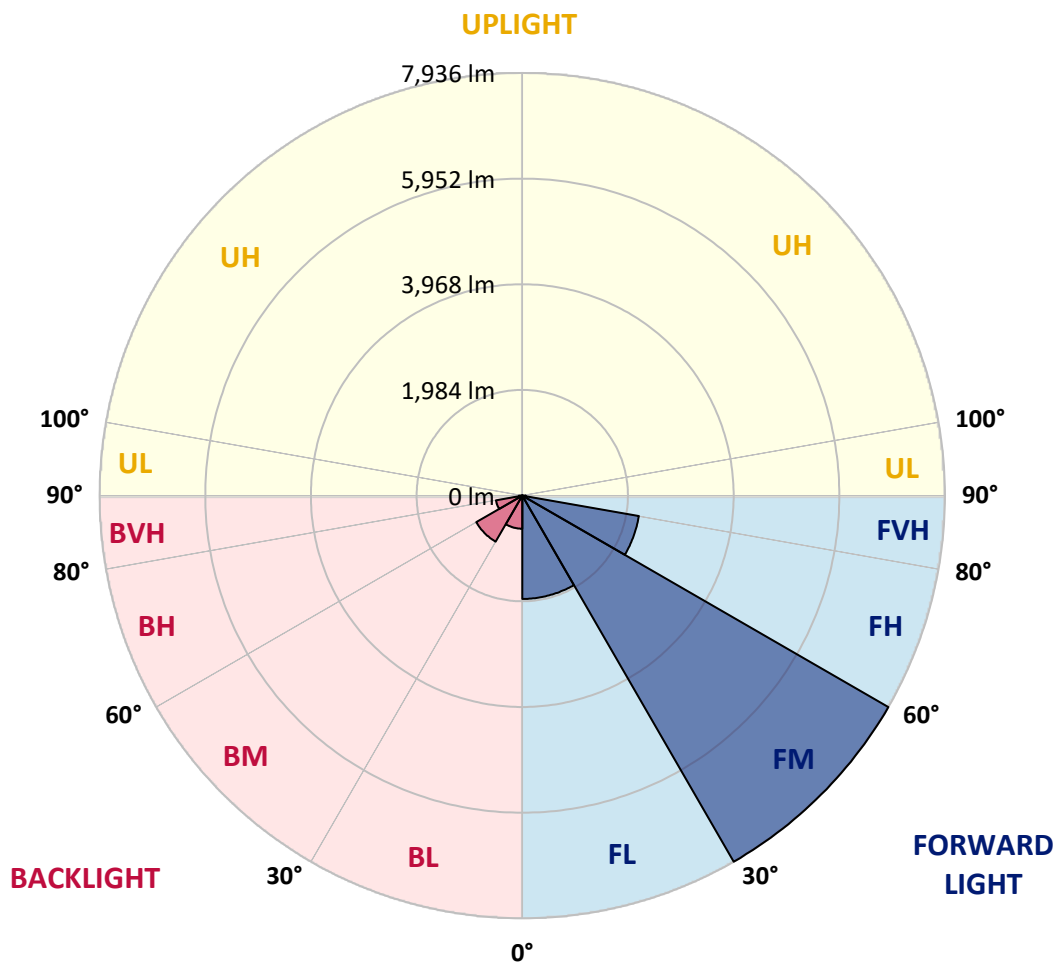
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1939.1	13.5			
FM	(30°-60°)	7936.3	55.3			
FH	(60°-80°)	2222.9	15.5			G2/5000
FVH	(80°-90°)	65.2	0.5			G1/100
BL	(0°-30°)	621.6	4.3	B2/1000		
BM	(30°-60°)	997.5	7.0	B1/1000		
BH	(60°-80°)	501.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	60.5	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°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	3744.8	3703.9	3671.7	3643.5	3606.6	3506.8	3407.1	3405.6	3326.2	3203.7	3078.1
5°	4354.9	4299.9	4307.0	4219.1	4131.1	3986.6	3775.4	3764.4	3595.6	3366.3	3133.1
7.5°	4752.2	4753.0	4731.0	4680.8	4585.8	4421.6	4182.1	4128.0	3893.2	3545.3	3195.9
10°	4731.8	4753.0	4789.9	4833.1	4862.2	4781.3	4563.0	4497.0	4191.6	3762.0	3265.8
12.5°	4460.1	4493.1	4545.7	4654.1	4829.2	4962.7	4888.1	4834.7	4537.1	3978.0	3342.7
15°	4290.5	4310.1	4339.2	4412.2	4600.7	4920.3	5113.4	5085.2	4862.9	4222.2	3429.1
17.5°	4238.7	4258.3	4267.7	4312.5	4446.8	4774.2	5202.2	5252.4	5151.9	4446.8	3516.3
20°	4290.5	4299.9	4299.9	4326.6	4431.8	4688.6	5198.2	5299.5	5389.0	4716.1	3597.9
22.5°	4426.4	4430.3	4424.8	4434.2	4512.7	4712.2	5161.3	5287.0	5580.6	4944.6	3661.5
25°	4647.0	4653.3	4617.2	4595.2	4652.5	4815.8	5181.7	5297.2	5730.6	5162.9	3703.9
27.5°	4897.5	4905.3	4861.4	4810.3	4837.0	4943.8	5261.8	5365.5	5842.9	5378.1	3730.6
30°	5204.5	5207.7	5133.8	5072.6	5055.3	5134.6	5398.5	5495.1	5982.7	5631.7	3770.7
32.5°	5518.6	5542.2	5447.2	5360.8	5331.7	5356.1	5600.3	5693.7	6149.2	5904.2	3835.1
35°	5945.8	5949.7	5835.8	5730.6	5634.8	5666.2	5858.6	5926.1	6379.2	6219.0	3926.2
37.5°	6478.9	6515.1	6358.0	6161.7	6043.9	5998.4	6171.1	6244.9	6702.0	6605.4	4063.6
40°	7071.0	7084.4	6950.1	6827.6	6612.4	6480.5	6599.9	6680.0	7100.1	7066.3	4223.0
42.5°	7443.2	7472.3	7482.5	7469.9	7308.2	7086.7	7132.3	7170.0	7571.2	7499.0	4386.3
45°	7568.9	7612.0	7758.1	8067.5	8084.7	7866.5	7760.4	7796.6	8084.7	7935.6	4542.6
47.5°	7360.8	7434.6	7703.9	8338.4	8813.4	8829.9	8510.3	8431.0	8552.7	8297.5	4655.6
50°	6822.9	6838.6	7250.8	8169.6	9155.0	9751.0	9420.4	9272.8	8997.2	8565.3	4733.4
52.5°	5990.5	6008.6	6354.1	7385.1	8944.6	10394.9	10485.2	10221.4	9448.7	8773.4	4784.4
55°	4446.8	4551.2	4931.3	5927.7	7947.3	10334.4	11331.7	11181.7	9994.4	8938.3	4864.5
57.5°	2734.2	2638.4	3089.1	4033.0	5977.2	9503.7	11593.2	11641.8	10595.1	9076.5	4998.8
60°	1257.9	1276.8	1462.9	2080.1	3643.5	7434.6	10919.4	11227.2	10927.3	9071.8	5032.6
62.5°	866.9	849.6	802.5	913.2	1661.6	4702.0	9223.3	9744.7	10261.4	8789.9	4898.3
65°	775.0	757.7	666.7	636.0	763.2	2049.5	6705.1	7363.1	8639.9	8078.5	4563.8
67.5°	724.0	700.4	606.2	546.5	545.0	815.9	3953.6	4745.9	6408.3	6829.9	3954.4
70°	670.6	651.7	558.3	492.3	464.1	512.8	1737.7	2274.8	4160.9	4921.8	3080.5
72.5°	617.2	595.2	511.2	440.5	403.6	384.0	665.9	866.1	2351.0	2950.9	1888.5
75°	539.5	528.5	457.0	398.9	358.9	310.2	422.5	482.1	1124.5	1355.3	947.8
77.5°	471.9	460.1	406.0	348.6	319.6	252.1	300.0	327.4	474.3	549.7	428.0
80°	345.5	357.3	342.4	307.8	285.0	197.9	201.8	224.6	281.9	311.7	261.5
82.5°	219.1	241.1	263.8	237.1	215.9	156.3	139.8	148.4	192.4	204.2	116.2
85°	91.9	93.4	153.1	144.5	123.3	92.7	84.0	88.7	102.9	107.6	54.2
87.5°	35.3	34.6	54.2	50.3	38.5	26.7	26.7	29.8	40.8	37.7	17.3
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°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	3023.9	2968.2	2857.5	2720.0	2619.5	2506.5	2406.7	2335.3	2308.6	2296.0	2272.5
5°	3021.6	2911.6	2682.4	2442.1	2248.9	2051.0	1883.8	1775.4	1766.0	1693.7	1686.7
7.5°	3022.4	2854.3	2489.2	2135.8	1841.4	1638.8	1500.6	1464.5	1421.3	1410.3	1415.8
10°	3024.7	2781.3	2281.9	1832.7	1547.7	1415.0	1363.2	1349.0	1350.6	1355.3	1356.1
12.5°	3027.9	2710.6	2066.7	1602.7	1382.8	1327.8	1322.3	1334.9	1348.2	1358.5	1360.8
15°	3031.8	2629.7	1857.1	1417.3	1300.3	1295.6	1313.7	1334.9	1353.7	1368.7	1371.0
17.5°	3027.1	2535.5	1681.2	1303.5	1254.8	1277.6	1307.4	1334.1	1351.4	1365.5	1367.1
20°	3016.1	2430.3	1511.6	1223.4	1226.5	1263.4	1295.6	1320.8	1339.6	1346.7	1352.2
22.5°	2973.7	2304.7	1363.9	1161.4	1192.8	1243.8	1282.3	1297.2	1276.0	1261.1	1265.0
25°	2901.4	2141.3	1226.5	1111.1	1162.1	1216.3	1255.6	1219.5	1202.2	1195.9	1199.0
27.5°	2811.1	1962.3	1122.9	1058.5	1122.9	1185.7	1174.7	1168.4	1160.6	1150.4	1152.7
30°	2713.8	1787.2	1034.9	1017.7	1080.5	1116.6	1121.3	1131.5	1122.9	1107.2	1113.5
32.5°	2623.5	1622.3	968.2	983.1	1050.6	1045.1	1080.5	1092.3	1052.2	999.6	1002.0
35°	2546.5	1469.2	917.9	949.3	999.6	1002.0	1037.3	996.5	953.3	928.1	929.7
37.5°	2488.4	1349.8	885.0	920.3	934.4	964.3	945.4	924.2	918.7	901.4	902.2
40°	2453.8	1245.4	863.8	897.5	895.2	915.6	855.1	876.3	884.2	878.7	879.5
42.5°	2419.3	1171.6	841.8	866.1	865.3	825.3	811.9	830.0	850.4	852.8	851.2
45°	2391.8	1114.2	819.0	818.2	833.9	771.1	767.2	778.2	807.2	821.4	820.6
47.5°	2361.2	1066.3	784.4	762.5	767.2	737.3	731.1	735.8	771.1	793.9	800.2
50°	2322.7	1018.4	741.3	711.4	691.8	705.9	707.5	708.3	743.6	769.5	775.0
52.5°	2292.1	982.3	691.8	669.8	646.2	677.7	689.4	691.0	712.2	733.4	737.3
55°	2310.2	961.9	643.1	627.4	606.2	648.6	671.4	674.5	679.2	694.9	697.3
57.5°	2364.3	966.6	603.8	583.4	567.7	614.1	652.5	654.9	651.7	670.6	673.7
60°	2380.8	964.3	574.8	534.7	525.3	577.1	625.0	629.8	629.0	656.5	662.0
62.5°	2311.7	934.4	545.7	493.9	487.6	539.5	586.6	605.4	609.3	648.6	655.7
65°	2149.2	873.2	507.3	450.7	450.7	499.4	549.7	575.6	586.6	639.2	647.0
67.5°	1934.8	800.9	468.0	413.8	412.2	460.9	510.4	537.1	554.4	625.8	630.5
70°	1605.8	703.6	419.3	373.8	373.8	417.7	462.5	494.7	519.8	600.7	600.7
72.5°	1100.1	585.0	360.4	328.2	329.0	369.8	415.4	451.5	481.3	550.4	552.0
75°	695.7	457.0	296.0	279.5	282.7	321.2	368.3	406.0	465.6	544.2	546.5
77.5°	369.8	321.2	235.6	231.6	235.6	270.9	323.5	375.3	467.2	471.9	464.1
80°	239.5	227.7	186.1	178.2	179.8	218.3	288.2	356.5	375.3	380.1	362.8
82.5°	130.3	144.5	131.9	124.1	124.1	170.4	245.8	283.5	269.3	223.8	213.6
85°	55.8	67.5	68.3	59.7	57.3	105.2	164.9	154.7	143.7	137.4	135.8
87.5°	15.7	22.0	22.0	16.5	12.6	29.1	33.0	9.4	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)