

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: P951999

Luminaire Tested: **GALN-SB6A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24659 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



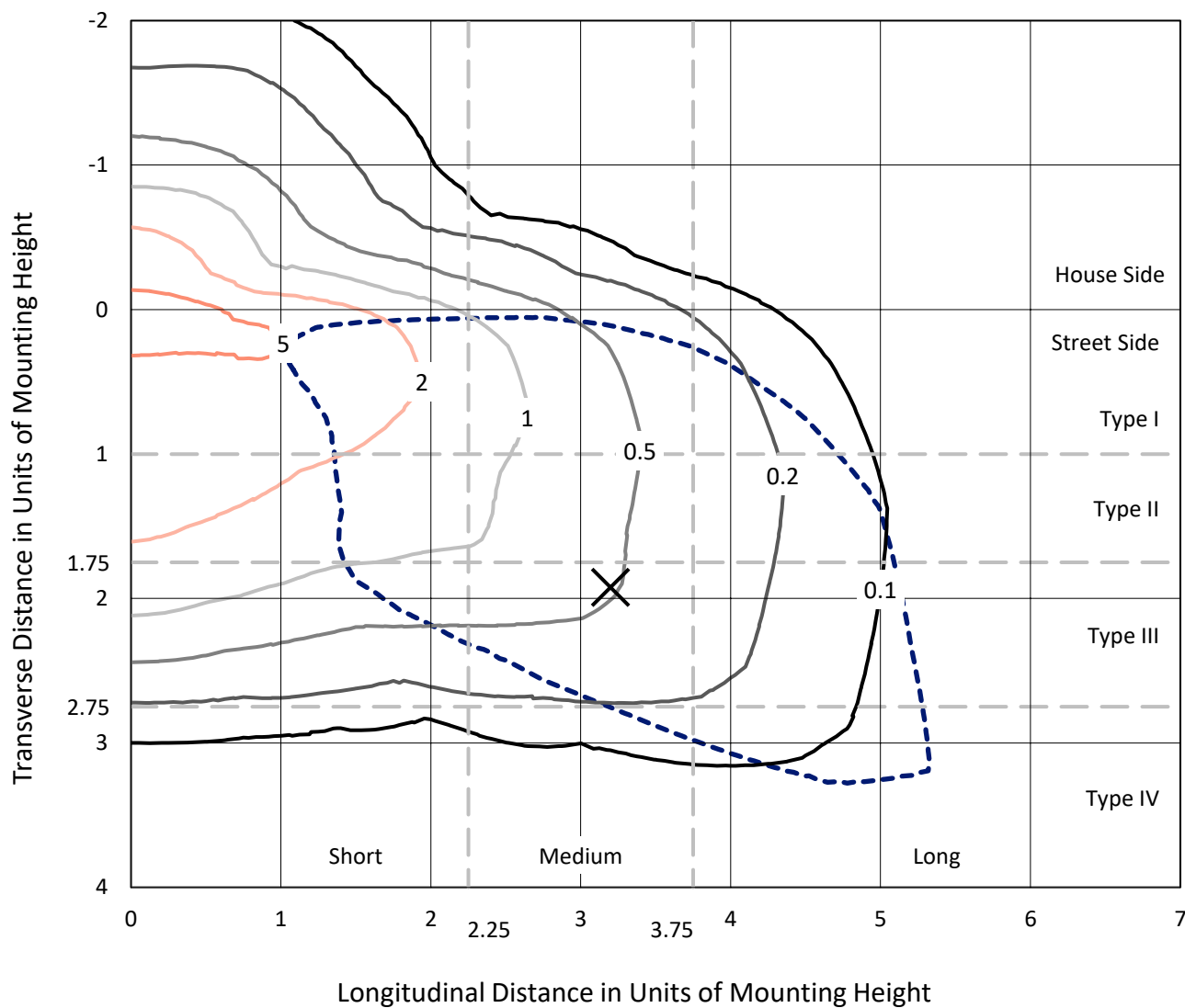
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



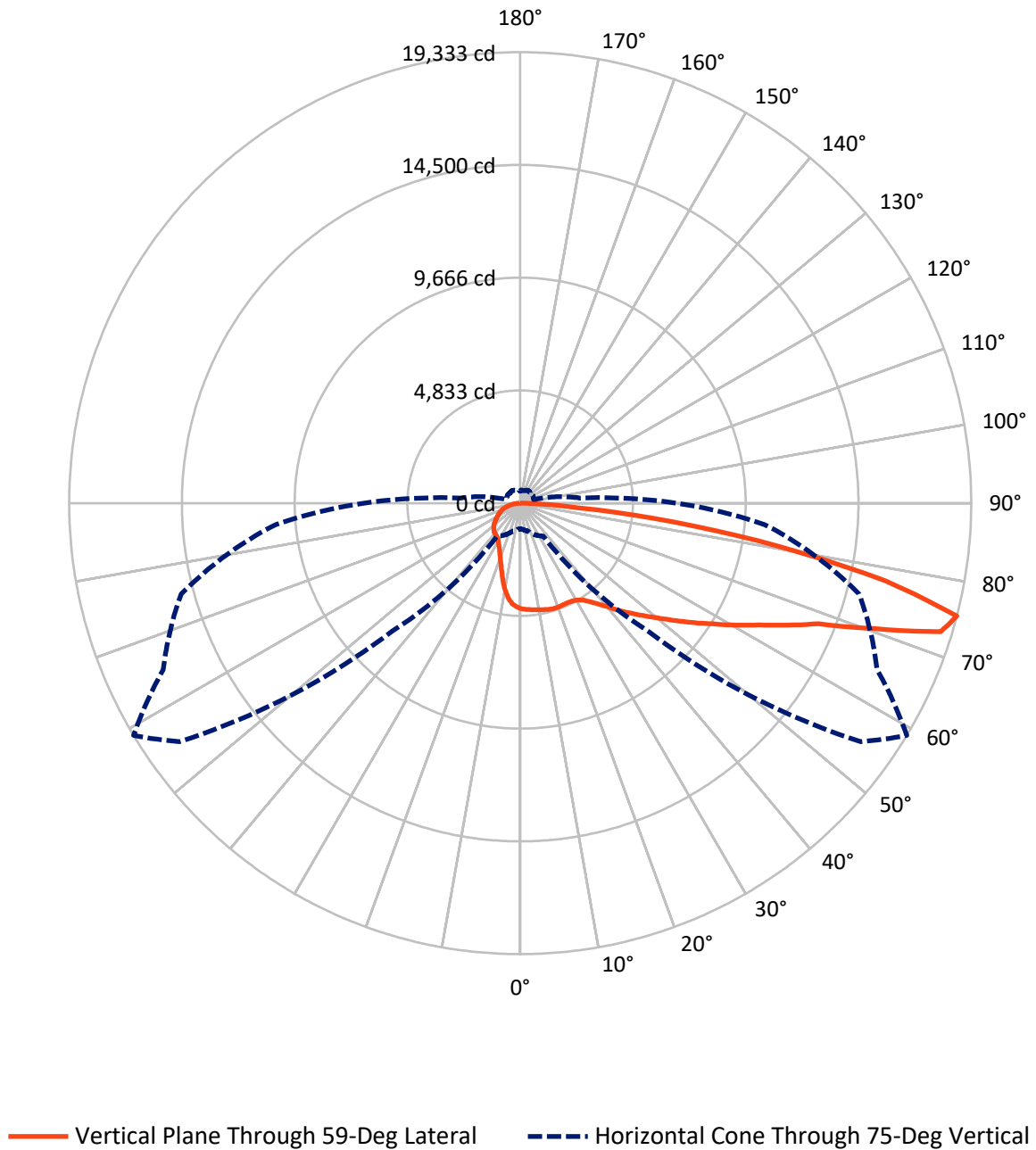
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.0	0.0	4625.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20034.0	0.0	20034.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	24659.0	0.0	24659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	1.6
10°-20°	1037.3	4.2
20°-30°	1575.7	6.4
30°-40°	2342.2	9.5
40°-50°	3483.2	14.1
50°-60°	4728.0	19.2
60°-70°	5772.2	23.4
70°-80°	4529.9	18.4
80°-90°	784.7	3.2
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°	24659.0	100.0
0°-180°	24659.0	100.0

Coefficient of Utilization



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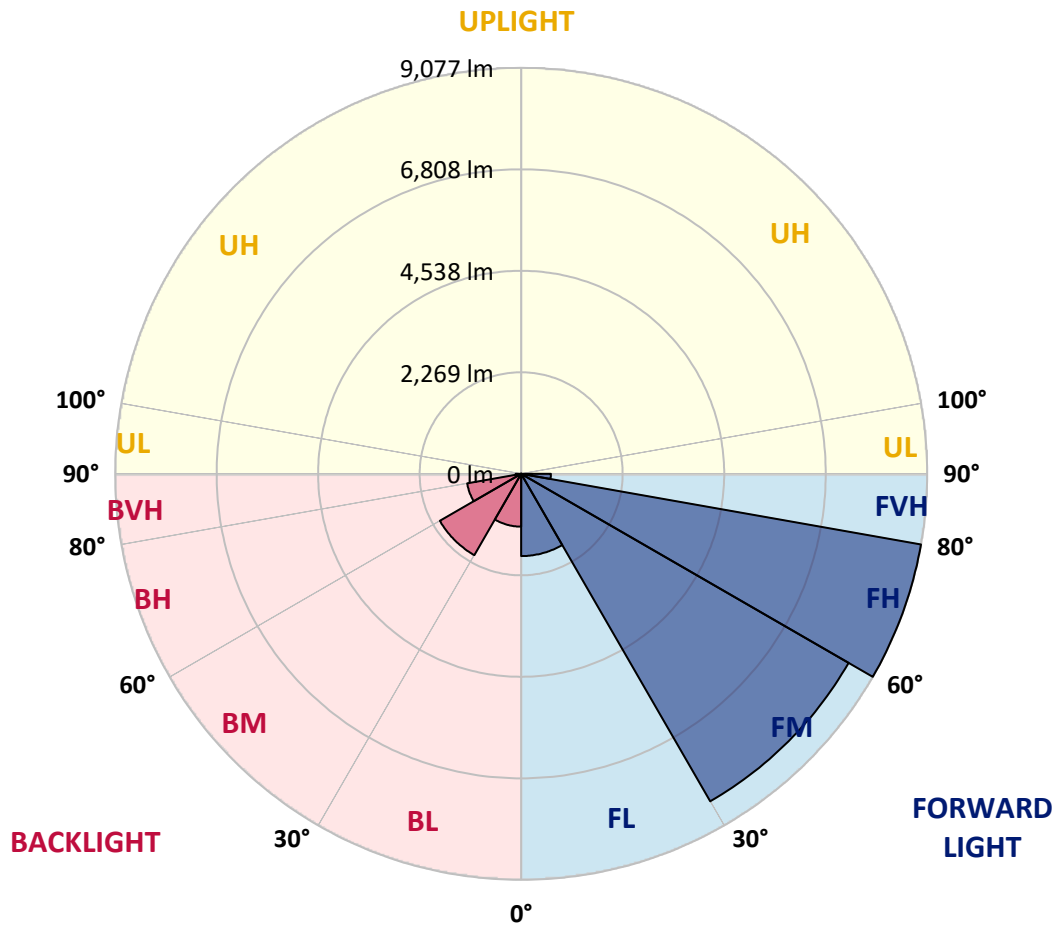
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1838.6	7.5			
FM	(30°-60°)	8454.1	34.3			
FH	(60°-80°)	9076.7	36.8			G4/12000
FVH	(80°-90°)	664.6	2.7			G4/750
BL	(0°-30°)	1180.2	4.8	B3/2500		
BM	(30°-60°)	2099.3	8.5	B2/2500		
BH	(60°-80°)	1225.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	120.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1
2.5°	4564.6	4548.7	4564.6	4557.9	4555.3	4550.0	4551.3	4560.6	4555.3	4561.9	4539.4
5°	4534.1	4524.8	4540.7	4536.7	4554.0	4556.6	4573.9	4584.5	4591.1	4592.4	4575.2
7.5°	4483.7	4474.4	4496.9	4515.5	4552.6	4563.2	4599.1	4616.3	4625.6	4641.5	4616.3
10°	4299.3	4295.3	4351.0	4421.3	4508.9	4563.2	4617.6	4646.8	4661.4	4703.9	4674.7
12.5°	3972.9	3978.2	4051.2	4186.5	4361.6	4536.7	4638.9	4681.3	4703.9	4756.9	4743.7
15°	3661.2	3659.9	3739.5	3884.1	4129.5	4420.0	4649.5	4722.4	4760.9	4839.2	4828.6
17.5°	3480.8	3475.5	3531.2	3641.3	3869.5	4240.9	4622.9	4745.0	4827.2	4925.4	4916.1
20°	3447.6	3437.0	3466.2	3520.6	3682.4	4044.6	4554.0	4745.0	4880.3	5007.6	5002.3
22.5°	3568.4	3551.1	3539.2	3532.5	3604.2	3882.7	4475.7	4729.1	4958.6	5125.7	5116.4
25°	3811.1	3784.6	3723.6	3663.9	3642.6	3809.8	4406.7	4725.1	5075.3	5284.9	5250.4
27.5°	4203.8	4170.6	4047.2	3904.0	3775.3	3846.9	4376.2	4749.0	5204.0	5453.3	5384.4
30°	4690.6	4654.8	4499.6	4279.4	4048.6	3984.9	4414.7	4819.3	5368.4	5677.5	5542.2
32.5°	5127.0	5087.2	4954.6	4730.4	4418.7	4223.7	4536.7	4953.2	5627.1	5989.3	5779.7
35°	5514.4	5467.9	5348.6	5141.6	4872.3	4559.3	4756.9	5190.7	5994.6	6496.0	6102.0
37.5°	5893.8	5839.4	5709.4	5490.5	5302.1	5006.3	5060.7	5495.8	6482.7	7111.5	6529.2
40°	6318.2	6240.0	6082.1	5865.9	5682.8	5530.3	5460.0	5869.9	6978.8	7798.6	7062.4
42.5°	6729.5	6655.2	6466.8	6282.4	6052.9	6009.2	5922.9	6307.6	7521.4	8553.4	7603.6
45°	7172.5	7083.6	6855.5	6622.0	6477.4	6327.5	6371.3	6745.4	8053.3	9322.8	8171.4
47.5°	7587.7	7488.2	7219.0	6959.0	6879.4	6595.5	6782.5	7226.9	8606.5	10102.8	8733.8
50°	7811.9	7713.7	7489.6	7254.8	7192.4	6925.8	7228.2	7756.2	9186.2	10880.2	9273.7
52.5°	7998.9	7892.8	7599.7	7469.7	7451.1	7285.3	7777.4	8361.1	9765.9	11567.3	9795.1
55°	8197.9	8079.9	7705.8	7589.1	7673.9	7688.5	8428.7	9046.9	10378.7	12237.2	10287.2
57.5°	8427.4	8277.5	7807.9	7689.9	7891.5	8160.8	9176.9	9757.9	10981.0	12858.0	10725.0
60°	8643.6	8492.4	8004.3	7850.4	8126.3	8708.6	10035.2	10618.8	11662.8	13411.2	11138.8
62.5°	8686.1	8561.4	8160.8	8159.5	8444.7	9348.0	11051.3	11487.7	12258.4	13957.7	11510.3
65°	7951.2	7872.9	7635.5	8147.5	8901.0	10268.6	12182.8	12599.3	13015.9	14435.2	11836.6
67.5°	6051.6	6062.2	6045.0	7033.2	8532.2	11591.2	13821.1	13789.2	13951.1	14971.2	12212.0
70°	2767.1	2829.5	3235.4	4855.1	6835.6	11743.7	16529.8	16117.3	15125.0	15664.9	12537.0
72.5°	1495.0	1542.7	1708.6	2351.9	4109.6	10441.1	18554.1	18847.3	16686.4	16131.9	12180.2
75°	1097.0	1123.6	1239.0	1495.0	1725.8	7760.2	17828.5	19332.8	16881.4	15042.8	10518.0
77.5°	821.1	833.1	927.2	1184.6	883.5	4091.0	14245.6	16011.2	14451.2	12359.2	7769.5
80°	595.6	608.9	679.2	888.8	619.5	1496.3	9781.8	11238.3	9897.2	7878.2	3872.1
82.5°	411.2	416.5	447.0	604.9	432.4	581.0	5550.2	6590.2	5525.0	2764.5	1045.3
85°	248.1	254.7	268.0	352.9	245.4	275.9	2395.7	2477.9	1651.5	660.6	325.0
87.5°	102.1	108.8	119.4	148.6	96.8	76.9	395.3	496.1	309.1	193.7	100.8
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°	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1
2.5°	4532.7	4523.5	4498.2	4463.8	4431.9	4392.1	4374.9	4360.3	4347.0	4321.8	4309.9
5°	4560.6	4535.4	4467.7	4380.2	4280.7	4171.9	4065.8	3992.8	3930.5	3884.1	3845.6
7.5°	4603.0	4555.3	4431.9	4252.8	4024.7	3791.2	3580.3	3430.4	3317.6	3276.5	3204.9
10°	4646.8	4589.8	4374.9	4059.2	3665.2	3305.7	3025.8	2871.9	2781.7	2752.5	2707.4
12.5°	4698.6	4615.0	4286.0	3789.9	3263.3	2869.3	2625.2	2535.0	2488.6	2472.6	2476.6
15°	4774.2	4636.2	4152.0	3452.9	2879.9	2550.9	2393.1	2330.7	2306.8	2305.5	2310.8
17.5°	4831.2	4640.2	3943.8	3092.1	2585.4	2358.6	2228.6	2204.7	2220.6	2244.5	2253.8
20°	4894.9	4604.4	3670.5	2763.2	2378.5	2190.1	2135.7	2151.6	2190.1	2224.6	2236.5
22.5°	4940.0	4539.4	3340.2	2507.1	2199.4	2093.3	2090.6	2123.8	2145.0	2162.2	2171.5
25°	4979.8	4429.3	2990.0	2292.2	2052.1	2034.9	2064.1	2053.5	2038.9	2053.5	2062.7
27.5°	5009.0	4255.5	2676.9	2103.9	1948.7	1995.1	1977.8	1954.0	1952.6	1960.6	1973.9
30°	4999.7	4023.4	2419.6	1924.8	1875.7	1920.8	1879.7	1875.7	1871.7	1875.7	1890.3
32.5°	4999.7	3759.4	2221.9	1801.4	1829.3	1812.0	1808.1	1798.8	1782.9	1781.5	1798.8
35°	5027.5	3495.4	2052.1	1735.1	1790.8	1749.7	1752.3	1729.8	1696.6	1680.7	1696.6
37.5°	5084.6	3283.2	1883.7	1703.3	1723.2	1721.8	1711.2	1672.7	1614.4	1564.0	1581.2
40°	5222.5	3220.8	1768.3	1688.7	1691.3	1707.2	1679.4	1605.1	1472.4	1390.2	1400.8
42.5°	5438.8	3325.6	1743.1	1652.9	1670.1	1686.0	1631.6	1459.2	1365.0	1315.9	1315.9
45°	5713.3	3508.7	1797.4	1601.1	1619.7	1647.5	1485.7	1403.5	1361.0	1362.3	1369.0
47.5°	6060.9	3701.0	1898.3	1556.0	1546.7	1562.6	1388.9	1338.5	1280.1	1294.7	1331.8
50°	6462.8	3896.0	1993.8	1495.0	1465.8	1414.1	1326.5	1278.8	1204.5	1170.0	1179.3
52.5°	6897.9	4084.4	2032.2	1420.7	1378.3	1318.6	1284.1	1225.7	1135.5	1078.5	1077.1
55°	7310.5	4255.5	1989.8	1331.8	1290.7	1244.3	1239.0	1203.2	1106.3	1026.7	1026.7
57.5°	7700.5	4398.8	1883.7	1241.6	1201.8	1174.0	1209.8	1192.5	1070.5	968.4	963.1
60°	8030.8	4496.9	1729.8	1150.1	1122.2	1107.6	1162.0	1156.7	1020.1	906.0	902.0
62.5°	8293.4	4535.4	1560.0	1062.5	1055.9	1029.4	1095.7	1095.7	956.4	845.0	841.0
65°	8499.0	4498.2	1387.5	976.3	989.6	949.8	1014.8	1006.8	888.8	790.6	785.3
67.5°	8680.8	4376.2	1196.5	891.4	921.9	871.5	929.9	911.3	814.5	736.2	730.9
70°	8761.7	4092.3	979.0	806.5	843.7	794.6	845.0	810.5	730.9	677.9	667.2
72.5°	8111.7	3401.2	770.7	717.7	749.5	709.7	753.5	713.7	640.7	616.8	596.9
75°	6710.9	2552.2	593.0	620.8	644.7	614.2	643.4	614.2	547.9	565.1	516.0
77.5°	4873.7	1723.2	453.7	518.7	529.3	513.4	538.6	505.4	445.7	441.7	421.8
80°	2423.6	1009.5	355.5	409.9	405.9	395.3	424.5	408.6	358.2	379.4	375.4
82.5°	701.7	432.4	258.7	287.9	279.9	282.5	303.8	311.7	466.9	463.0	473.6
85°	220.2	169.8	155.2	160.5	152.6	156.5	179.1	355.5	329.0	192.3	208.3
87.5°	57.0	58.4	38.5	41.1	42.4	50.4	57.0	216.2	103.5	67.7	71.6
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)