

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: P948427

Luminaire Tested: **GALN-SB3C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20716 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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



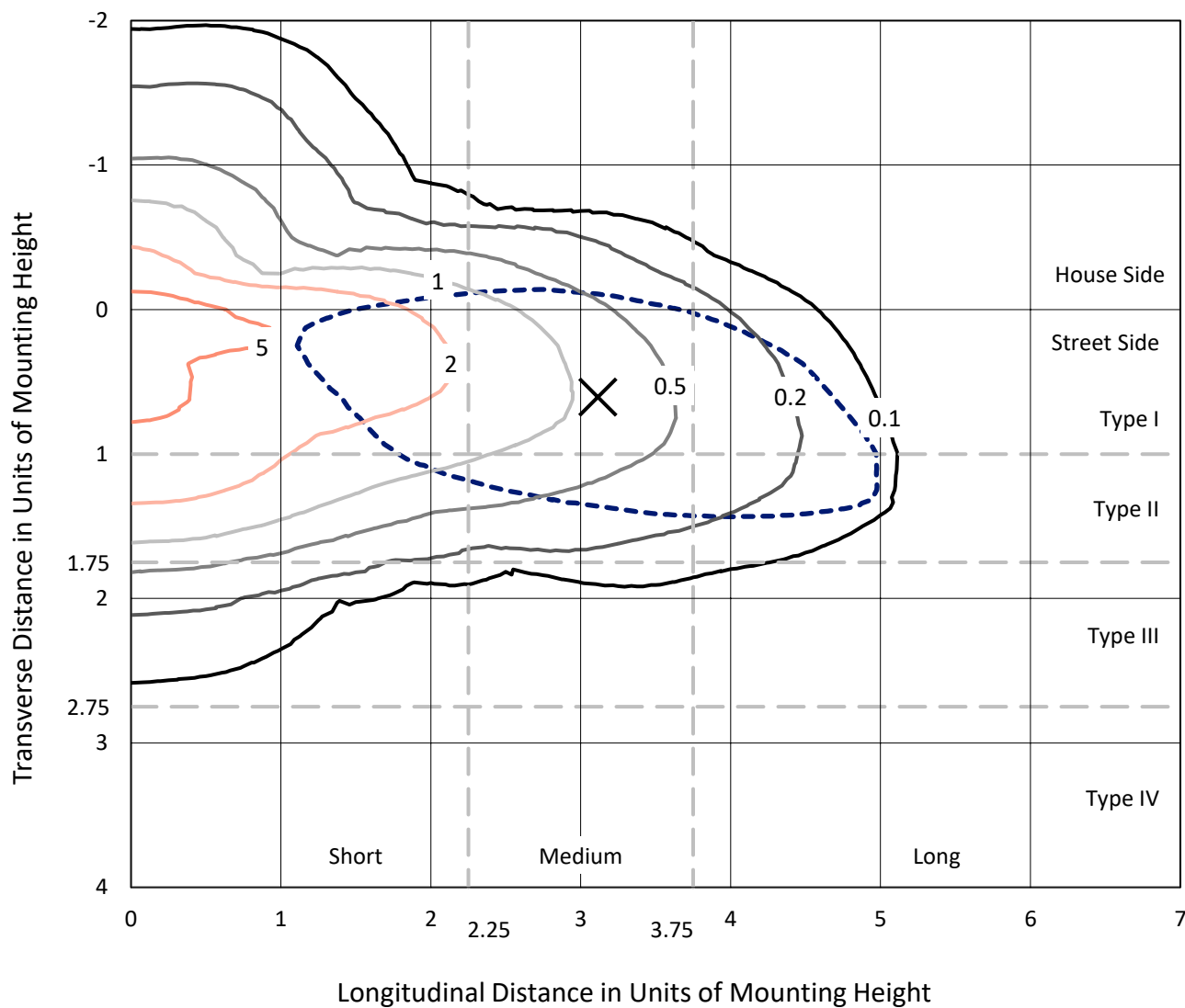
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Iso-Footcandle Lines of Horizontal Illumination

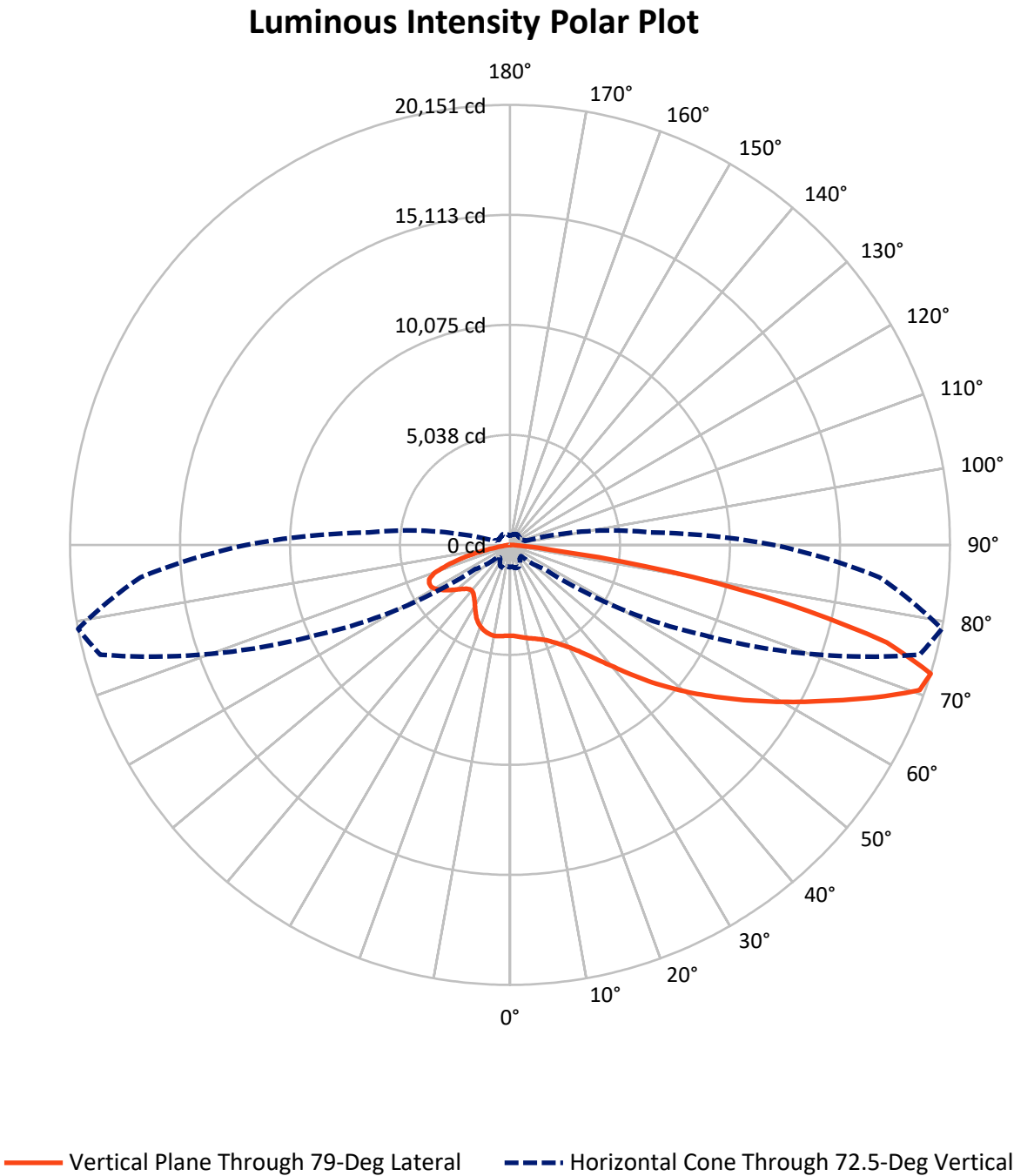
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4558.7	0.0	4558.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16157.3	0.0	16157.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	20716.0	0.0	20716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.5	1.8
10°-20°	986.9	4.8
20°-30°	1592.5	7.7
30°-40°	2390.1	11.5
40°-50°	3390.4	16.4
50°-60°	4281.7	20.7
60°-70°	4348.6	21.0
70°-80°	2963.8	14.3
80°-90°	384.5	1.9
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°	20716.0	100.0
0°-180°	20716.0	100.0

Coefficient of Utilization



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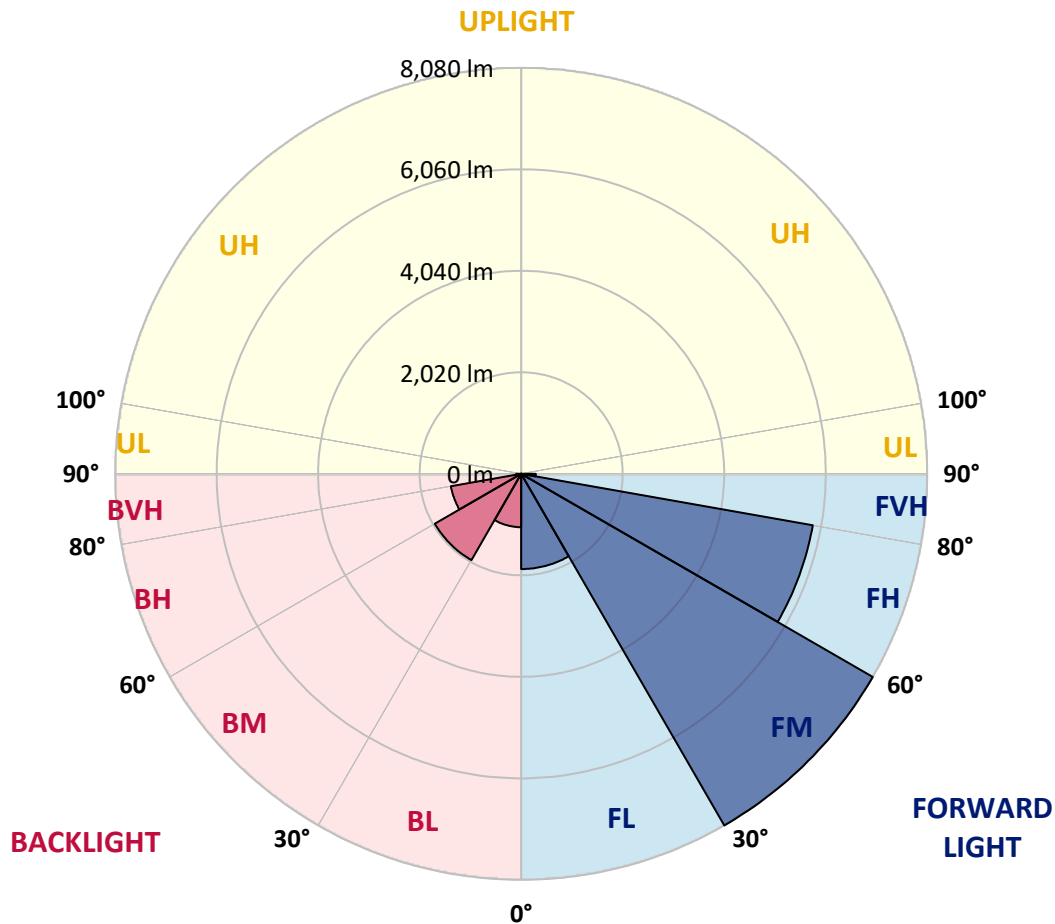
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1895.0	9.1			
FM	(30°-60°)	8079.7	39.0			
FH	(60°-80°)	5893.0	28.4			G3/7500
FVH	(80°-90°)	289.7	1.4			G3/500
BL	(0°-30°)	1061.8	5.1	B3/2500		
BM	(30°-60°)	1982.5	9.6	B2/2500		
BH	(60°-80°)	1419.4	6.9	B3/2500		G3/2500
BVH	(80°-90°)	94.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5
2.5°	4160.7	4141.0	4153.1	4148.7	4154.2	4160.7	4162.9	4166.2	4177.2	4176.1	4175.0
5°	4152.0	4132.2	4148.7	4143.2	4157.4	4172.8	4185.9	4198.0	4215.5	4223.2	4212.2
7.5°	4133.3	4120.2	4136.6	4153.1	4179.4	4202.4	4221.0	4248.4	4273.6	4278.0	4285.7
10°	4024.9	4015.0	4053.3	4096.1	4168.4	4230.9	4271.4	4303.2	4330.6	4335.0	4345.9
12.5°	3912.0	3899.9	3942.7	4000.7	4118.0	4230.9	4316.3	4358.0	4382.1	4396.3	4412.8
15°	3893.4	3883.5	3907.6	3958.0	4055.5	4201.3	4347.0	4423.7	4444.5	4461.0	4467.6
17.5°	3983.2	3964.6	3974.4	3992.0	4049.0	4173.9	4371.1	4498.2	4530.0	4547.5	4547.5
20°	4191.4	4165.1	4149.8	4114.7	4104.8	4178.3	4368.9	4588.1	4629.7	4651.6	4657.1
22.5°	4468.6	4451.1	4418.2	4329.5	4233.1	4232.0	4410.6	4703.1	4781.0	4801.8	4788.6
25°	4804.0	4777.7	4736.0	4615.5	4430.3	4338.3	4480.7	4850.0	4980.4	4985.9	4947.5
27.5°	5189.7	5150.2	5093.3	4934.4	4684.5	4504.8	4588.1	5018.7	5209.4	5207.2	5128.3
30°	5596.2	5556.8	5496.5	5303.6	4989.2	4729.4	4737.1	5200.6	5481.2	5469.1	5334.3
32.5°	5893.2	5863.6	5851.5	5702.5	5339.8	4994.6	4908.1	5402.3	5816.5	5805.5	5617.0
35°	6121.1	6082.8	6097.0	6021.4	5722.2	5291.6	5117.4	5642.2	6224.1	6223.0	5988.5
37.5°	6346.8	6312.9	6324.9	6274.5	6076.2	5668.5	5372.7	5935.9	6729.3	6753.4	6437.8
40°	6552.9	6516.7	6564.9	6517.8	6351.2	6069.6	5663.1	6267.9	7314.4	7360.5	6981.3
42.5°	6676.7	6648.2	6728.2	6729.3	6590.1	6408.2	5981.9	6633.9	7991.6	8094.6	7649.7
45°	6719.4	6709.5	6830.1	6855.3	6801.6	6604.4	6269.0	7032.8	8721.4	8905.5	8411.3
47.5°	6673.4	6654.8	6821.3	6914.5	6957.2	6696.4	6506.8	7464.6	9466.6	9736.1	9241.9
50°	6441.1	6404.9	6652.6	6848.7	7001.0	6756.7	6746.8	7963.1	10313.6	10608.4	10076.9
52.5°	6023.6	5996.2	6277.8	6618.6	6904.6	6786.3	7016.4	8507.7	11117.9	11499.3	10932.7
55°	5489.9	5453.8	5763.9	6208.8	6664.6	6776.4	7285.9	9117.0	12066.9	12453.7	11817.0
57.5°	4644.0	4571.7	4963.9	5489.9	6273.4	6764.3	7566.5	9723.0	13031.2	13494.7	12760.5
60°	3410.1	3302.7	3783.8	4407.3	5508.6	6647.1	7913.8	10402.4	14188.3	14605.8	13790.6
62.5°	1985.6	1923.1	2237.6	2819.5	4152.0	5956.7	8108.9	11192.4	15325.8	15764.1	14803.1
65°	1541.8	1524.3	1551.6	1596.6	2311.0	4459.9	7507.3	11962.8	16772.2	17079.1	15858.3
67.5°	1410.3	1397.1	1409.2	1324.8	1172.5	2484.2	5939.2	12157.8	18321.7	18508.0	16782.1
70°	1253.6	1238.2	1277.7	1205.4	922.7	1129.8	3837.5	11450.0	19554.5	19904.0	17484.5
72.5°	1021.3	1003.7	1095.8	1062.9	776.9	725.4	1927.5	9767.9	19425.1	20150.6	16981.5
75°	784.6	774.7	884.3	911.7	633.4	570.9	924.9	7260.7	17094.4	17825.3	14635.4
77.5°	609.3	601.6	657.5	757.2	510.6	442.7	568.7	4605.6	12882.2	13010.4	10085.7
80°	456.9	435.0	486.5	586.3	397.8	323.3	385.7	2685.8	8142.8	7381.3	4389.8
82.5°	286.0	275.0	317.8	391.2	280.5	222.4	250.9	1483.7	3263.3	1922.0	847.0
85°	163.3	158.9	173.1	223.5	152.3	128.2	143.5	655.3	596.1	409.8	255.3
87.5°	65.7	63.6	78.9	99.7	55.9	47.1	50.4	157.8	131.5	121.6	84.4
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°	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5
2.5°	4170.6	4170.6	4155.3	4131.1	4103.8	4086.2	4057.7	4050.1	4020.5	4011.7	4025.9
5°	4221.0	4212.2	4165.1	4097.2	4004.0	3918.6	3824.3	3765.1	3681.9	3652.3	3674.2
7.5°	4284.6	4260.4	4179.4	4030.3	3835.3	3643.5	3444.1	3292.9	3148.2	3096.7	3103.3
10°	4342.6	4308.7	4170.6	3909.8	3572.3	3240.3	2922.5	2700.0	2531.3	2462.3	2477.6
12.5°	4400.7	4338.3	4112.5	3709.3	3198.6	2748.3	2409.7	2236.5	2132.4	2049.1	2076.5
15°	4455.5	4367.8	4022.7	3440.8	2788.8	2331.9	2082.0	1943.9	1860.7	1805.9	1815.7
17.5°	4519.1	4393.0	3887.9	3100.0	2398.7	2043.7	1839.8	1756.6	1740.1	1733.5	1737.9
20°	4607.8	4416.1	3710.4	2718.7	2111.6	1813.5	1708.3	1700.7	1699.6	1696.3	1707.2
22.5°	4703.1	4443.4	3475.9	2372.4	1867.2	1670.0	1651.4	1636.0	1626.2	1625.1	1637.1
25°	4816.0	4452.2	3182.2	2088.6	1659.0	1602.1	1580.1	1557.1	1550.5	1550.5	1557.1
27.5°	4925.6	4422.6	2840.3	1842.0	1541.8	1539.6	1511.1	1503.4	1502.3	1505.6	1514.4
30°	5035.2	4366.7	2500.6	1614.1	1473.8	1473.8	1464.0	1469.5	1473.8	1484.8	1492.5
32.5°	5183.1	4307.6	2216.8	1445.4	1414.7	1403.7	1413.6	1424.5	1428.9	1443.2	1455.2
35°	5400.1	4265.9	1991.1	1353.3	1353.3	1339.1	1344.5	1342.3	1332.5	1325.9	1341.3
37.5°	5687.2	4263.7	1804.8	1310.6	1301.8	1299.6	1300.7	1286.5	1248.1	1202.1	1203.2
40°	6032.3	4322.9	1661.2	1281.0	1274.4	1287.6	1281.0	1242.6	1137.4	1057.4	1055.3
42.5°	6495.9	4491.7	1569.2	1244.8	1264.5	1281.0	1254.7	1122.1	1050.9	997.2	995.0
45°	7041.6	4765.6	1522.1	1206.5	1245.9	1265.6	1138.5	1080.5	1023.5	958.8	954.4
47.5°	7659.6	5110.8	1511.1	1170.3	1204.3	1216.3	1089.2	1062.9	998.3	928.1	922.7
50°	8332.4	5519.5	1540.7	1127.6	1144.0	1102.4	1072.8	1048.7	981.8	912.8	905.1
52.5°	9028.3	5969.9	1599.9	1069.5	1083.7	1037.7	1066.2	1045.4	972.0	878.8	872.3
55°	9712.0	6423.5	1656.8	1001.6	1022.4	979.6	1047.6	1032.2	927.0	821.8	816.4
57.5°	10406.8	6875.0	1712.7	941.3	963.2	923.8	1018.0	997.2	876.6	769.2	767.1
60°	11128.9	7313.3	1739.0	883.2	898.6	872.3	973.1	936.9	819.7	715.6	712.3
62.5°	11805.0	7678.2	1696.3	825.1	835.0	824.0	913.9	865.7	762.7	655.3	654.2
65°	12483.3	7895.2	1564.8	768.2	770.3	764.9	830.6	789.0	695.8	602.7	596.1
67.5°	13098.0	8016.8	1355.5	706.8	701.3	699.1	752.8	705.7	631.2	550.1	543.5
70°	13228.4	7707.8	1035.5	634.5	634.5	629.0	667.3	619.1	560.0	494.2	492.0
72.5°	12082.2	6483.8	735.3	552.3	561.0	550.1	581.9	541.3	487.6	443.8	430.6
75°	9742.7	4754.7	534.7	467.9	483.2	464.6	494.2	465.7	419.7	418.6	377.0
77.5°	6694.2	2940.0	387.9	385.7	396.7	372.6	406.5	391.2	349.6	330.9	310.1
80°	2856.7	1172.5	282.7	298.1	298.1	276.1	315.6	320.0	283.8	275.0	275.0
82.5°	568.7	333.1	198.3	204.9	192.9	186.3	223.5	247.6	341.9	380.2	381.3
85°	170.9	122.7	119.4	111.8	98.6	99.7	131.5	248.7	306.8	175.3	151.2
87.5°	47.1	30.7	31.8	25.2	20.8	27.4	44.9	188.5	103.0	43.8	37.3
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)