

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: P527714

Luminaire Tested: **GALN-SA2D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11986 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

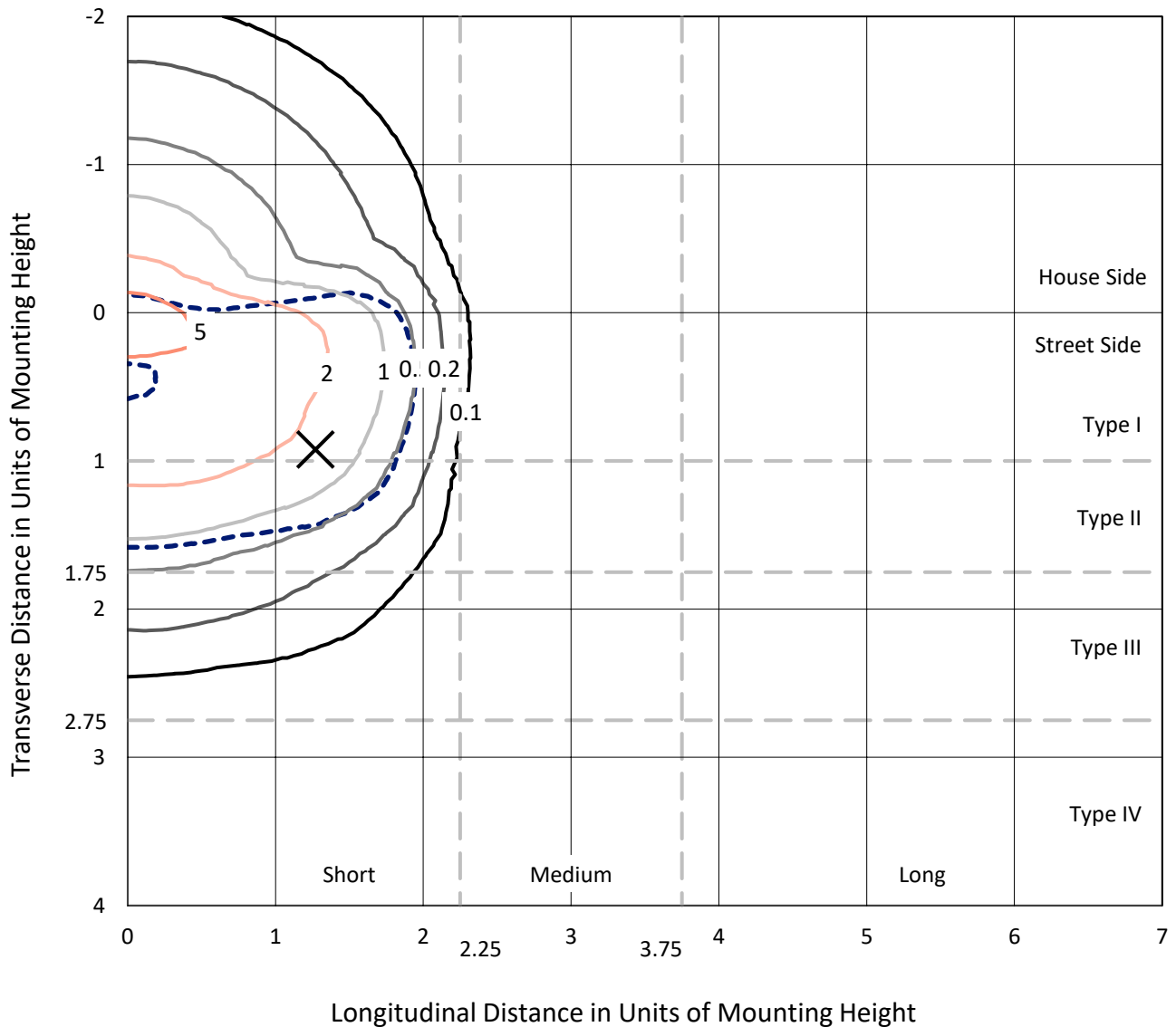
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

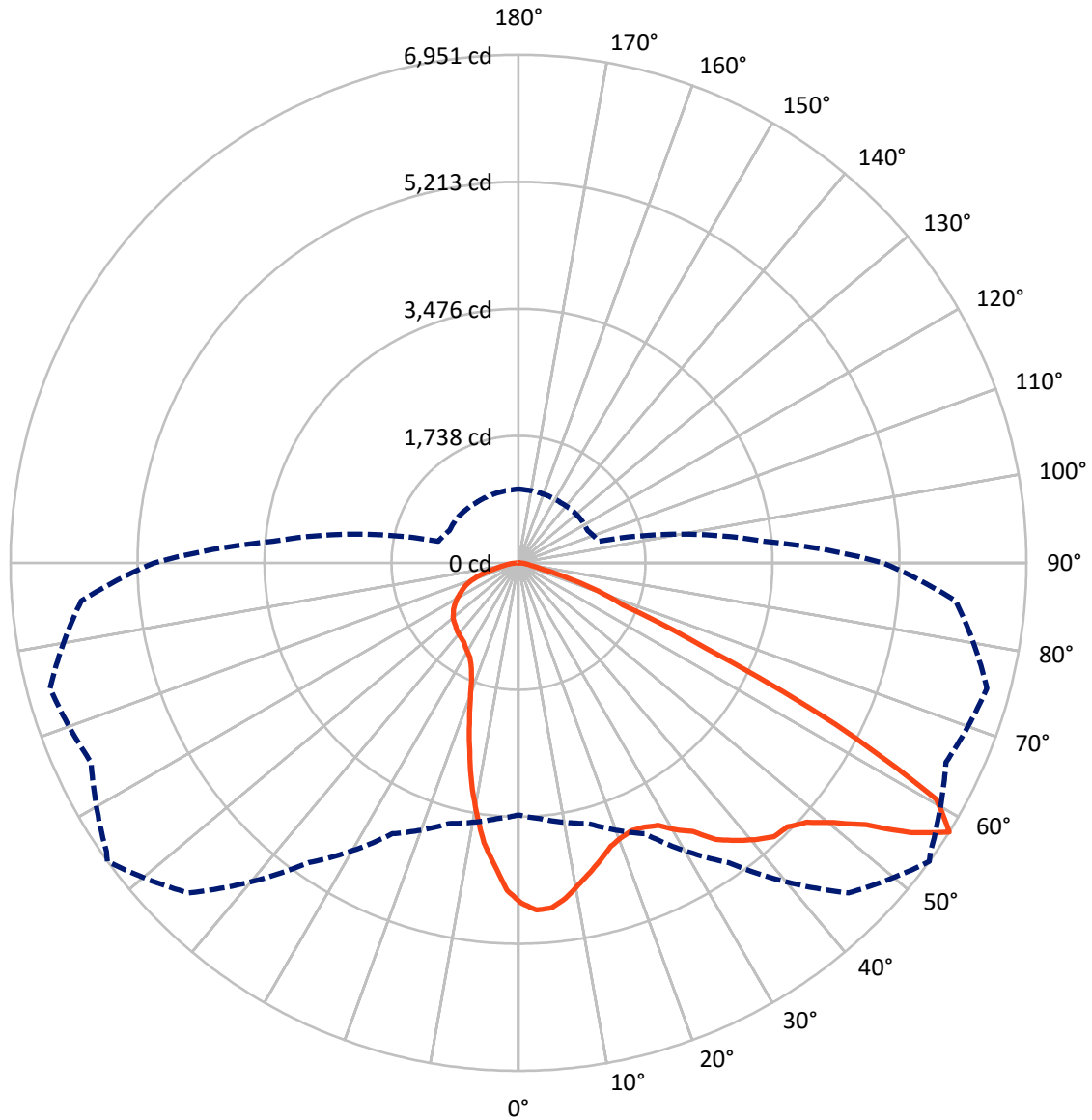
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3316.0	0.0	3316.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8670.0	0.0	8670.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	11986.0	0.0	11986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	3.4
10°-20°	930.3	7.8
20°-30°	1307.0	10.9
30°-40°	1827.2	15.2
40°-50°	2473.7	20.6
50°-60°	3013.1	25.1
60°-70°	1569.4	13.1
70°-80°	402.1	3.4
80°-90°	61.3	0.5
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°	11986.0	100.0
0°-180°	11986.0	100.0

Coefficient of Utilization

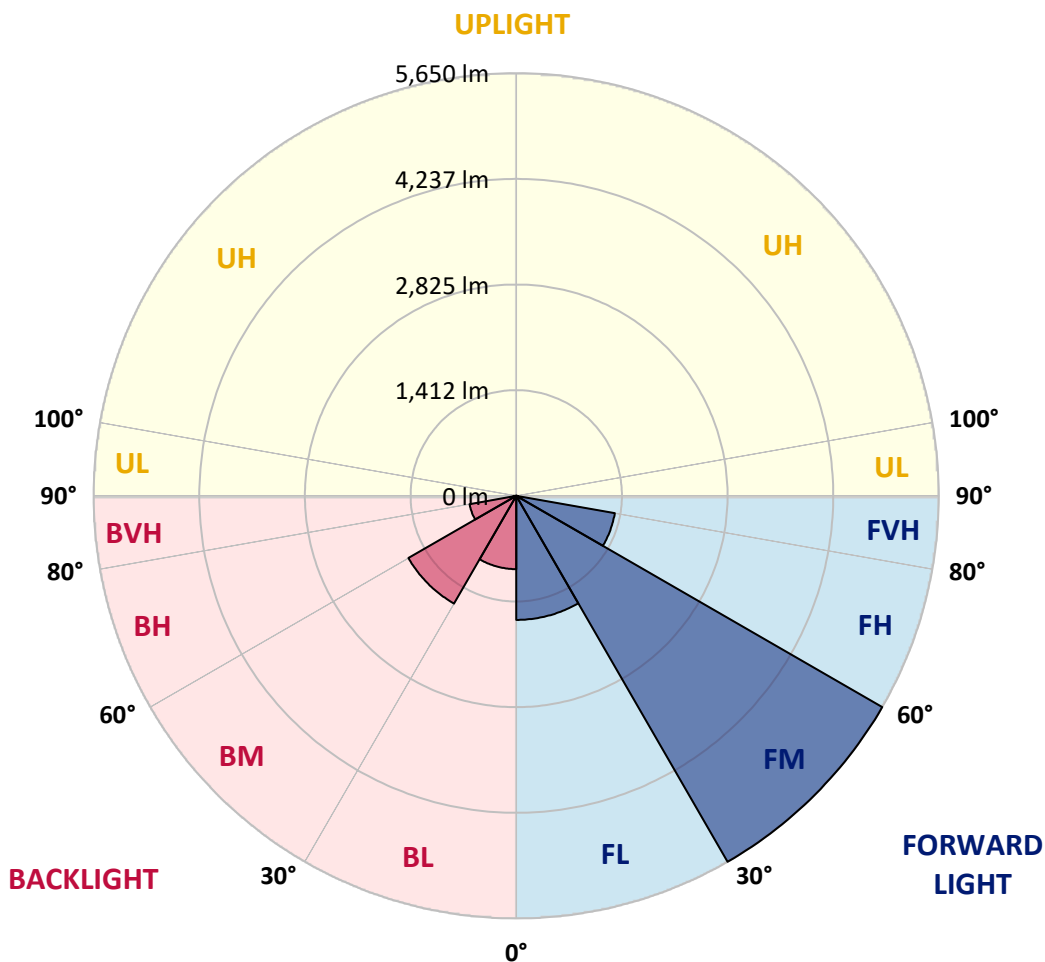


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.0	13.8			
FM (30°-60°)	5649.8	47.1			
FH (60°-80°)	1338.0	11.2			G1/1800
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	980.0	8.2	B2/1000		
BM (30°-60°)	1664.3	13.9	B2/2500		
BH (60°-80°)	633.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	38.2	0.3			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°	54°	55°	65°	75°	85°
0°	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8
2.5°	4791.3	4772.8	4775.9	4800.6	4769.7	4757.4	4757.4	4697.3	4702.0	4660.4	4649.6
5°	4680.4	4637.3	4666.5	4703.5	4709.7	4722.0	4742.0	4726.6	4683.5	4638.8	4566.4
7.5°	4390.8	4429.3	4440.1	4466.2	4521.7	4572.5	4635.7	4592.6	4591.0	4546.4	4503.2
10°	4136.6	4113.4	4172.0	4210.5	4302.9	4387.7	4484.7	4480.1	4503.2	4452.4	4378.4
12.5°	3883.9	3865.4	3893.1	3981.0	4110.4	4233.6	4349.2	4306.0	4429.3	4420.0	4261.3
15°	3615.8	3629.7	3669.7	3751.4	3920.9	4068.8	4215.1	4216.7	4326.0	4363.0	4150.4
17.5°	3427.9	3412.5	3463.3	3585.0	3736.0	3913.2	4079.5	4113.4	4281.4	4302.9	4116.5
20°	3287.7	3309.2	3375.5	3437.1	3611.2	3825.3	4013.3	4025.6	4272.1	4330.7	4062.6
22.5°	3253.8	3241.5	3263.0	3363.2	3506.4	3739.1	3977.9	4024.1	4270.6	4321.4	3960.9
25°	3218.3	3258.4	3256.9	3357.0	3461.8	3669.7	4007.1	4058.0	4352.2	4369.2	3974.8
27.5°	3298.5	3293.8	3337.0	3344.7	3474.1	3688.2	4068.8	4107.3	4487.8	4473.9	3985.6
30°	3378.6	3355.5	3381.7	3472.5	3532.6	3794.5	4238.2	4235.2	4663.4	4654.2	4019.5
32.5°	3477.2	3466.4	3483.3	3563.4	3665.1	3936.3	4381.5	4472.4	4842.2	4900.7	4136.6
35°	3495.7	3540.3	3580.4	3688.2	3833.1	4165.8	4651.1	4726.6	5048.6	5231.9	4359.9
37.5°	3612.7	3629.7	3723.7	3914.7	4047.2	4472.4	4822.1	4869.9	5236.6	5444.5	4595.7
40°	3737.5	3757.6	3899.3	4099.6	4281.4	4672.7	4982.4	4997.8	5296.6	5607.8	4749.7
42.5°	3907.0	3925.5	4065.7	4316.8	4560.2	4843.7	5124.1	5141.0	5292.0	5795.8	4994.7
45°	4082.6	4127.3	4292.2	4577.2	4795.9	5044.0	5156.4	5225.8	5335.2	5963.7	5193.4
47.5°	4329.1	4370.7	4506.3	4785.2	5040.9	5219.6	5305.9	5373.7	5438.4	6110.1	5321.3
50°	4591.0	4598.7	4763.6	5016.2	5204.2	5418.3	5584.7	5607.8	5573.9	6279.5	5538.5
52.5°	4783.6	4808.3	4936.1	5182.6	5463.0	5726.5	5954.5	5979.1	5912.9	6342.7	5612.5
55°	4464.7	4450.8	4658.8	4987.0	5637.1	6185.6	6516.8	6535.3	6159.4	6538.4	5854.3
57.5°	3451.0	3517.2	3694.4	4090.3	5008.5	6388.9	6951.3	6885.0	6455.2	6637.0	6008.4
60°	2508.1	2492.7	2611.3	2876.3	3774.5	5506.2	6572.3	6640.1	6213.3	5982.2	4954.6
62.5°	2042.9	2021.3	2030.5	2039.8	2435.7	3654.3	4865.3	4863.7	4785.2	4299.9	3341.6
65°	1633.1	1683.9	1688.5	1757.8	1808.7	2183.1	2819.3	2970.3	2586.7	2121.4	1539.1
67.5°	1231.0	1212.5	1274.1	1520.6	1616.1	1576.0	1539.1	1556.0	1106.2	798.0	751.8
70°	725.6	717.9	791.9	1059.9	1331.1	1252.5	1160.1	1161.6	759.5	557.7	620.9
72.5°	397.5	395.9	411.3	537.7	756.4	785.7	696.4	717.9	452.9	451.4	485.3
75°	221.8	217.2	212.6	237.3	272.7	288.1	294.3	297.3	311.2	348.2	362.0
77.5°	81.7	78.6	78.6	90.9	115.5	144.8	183.3	186.4	220.3	252.7	266.5
80°	27.7	30.8	41.6	57.0	77.0	103.2	124.8	127.9	155.6	177.2	181.8
82.5°	16.9	18.5	27.7	40.1	55.5	72.4	92.4	94.0	115.5	129.4	135.6
85°	7.7	9.2	15.4	24.6	35.4	47.8	49.3	49.3	47.8	49.3	46.2
87.5°	0.0	0.0	3.1	3.1	3.1	4.6	6.2	4.6	7.7	9.2	9.2
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°	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8	4658.8
2.5°	4617.2	4600.3	4547.9	4501.7	4487.8	4426.2	4335.3	4346.1	4279.8	4310.6	4278.3
5°	4554.1	4497.1	4363.0	4306.0	4156.6	4088.8	4042.6	3927.0	3873.1	3862.3	3816.1
7.5°	4392.3	4356.9	4188.9	4034.9	3876.2	3740.6	3566.5	3447.9	3363.2	3340.1	3272.3
10°	4264.4	4185.9	3953.2	3719.0	3492.6	3256.9	3030.4	2853.2	2766.9	2666.8	2632.9
12.5°	4138.1	4019.5	3705.2	3404.8	3112.0	2814.7	2540.5	2324.8	2136.8	2092.2	2076.7
15°	4059.5	3853.1	3483.3	3121.3	2705.3	2317.1	2042.9	1901.1	1785.6	1737.8	1771.7
17.5°	3956.3	3716.0	3270.7	2788.5	2331.0	1973.5	1744.0	1656.2	1614.6	1619.2	1605.3
20°	3826.9	3586.6	2991.9	2486.6	1996.6	1711.6	1580.7	1548.3	1554.5	1565.3	1560.6
22.5°	3734.5	3429.4	2790.1	2178.4	1725.5	1566.8	1512.9	1489.8	1509.8	1519.0	1511.3
25°	3663.6	3295.4	2545.1	1905.7	1568.3	1485.2	1460.5	1459.0	1489.8	1502.1	1494.4
27.5°	3598.9	3170.6	2301.7	1697.8	1463.6	1422.0	1414.3	1432.8	1452.8	1465.1	1475.9
30°	3560.4	3075.1	2073.7	1523.7	1411.2	1391.2	1377.3	1394.3	1405.0	1417.4	1411.2
32.5°	3597.3	3007.3	1853.4	1425.1	1368.1	1348.0	1366.5	1355.7	1374.2	1385.0	1368.1
35°	3712.9	2947.2	1696.2	1372.7	1318.8	1326.5	1329.6	1324.9	1332.6	1323.4	1343.4
37.5°	3826.9	2925.6	1551.4	1328.0	1295.7	1295.7	1292.6	1283.3	1298.7	1295.7	1304.9
40°	3971.7	2939.5	1428.2	1280.3	1274.1	1271.0	1258.7	1257.1	1251.0	1252.5	1255.6
42.5°	4098.0	2970.3	1357.3	1249.4	1254.1	1260.2	1237.1	1218.6	1226.3	1210.9	1210.9
45°	4232.1	2998.0	1294.1	1227.9	1223.2	1221.7	1203.2	1192.4	1186.3	1187.8	1201.7
47.5°	4443.1	3038.1	1246.4	1198.6	1201.7	1178.6	1173.9	1160.1	1166.2	1175.5	1177.0
50°	4592.6	3122.8	1209.4	1164.7	1175.5	1160.1	1132.4	1126.2	1126.2	1141.6	1138.5
52.5°	4697.3	3241.5	1173.9	1127.7	1132.4	1120.0	1110.8	1096.9	1087.7	1109.2	1120.0
55°	5017.8	3438.7	1164.7	1096.9	1095.4	1083.1	1066.1	1052.2	1047.6	1050.7	1072.3
57.5°	4987.0	3377.0	1135.4	1043.0	1039.9	1023.0	1006.0	1001.4	999.9	1002.9	1009.1
60°	4048.7	2494.3	1013.7	981.4	976.8	973.7	956.7	938.2	929.0	938.2	930.5
62.5°	2679.1	1670.0	893.6	907.4	910.5	902.8	875.1	856.6	859.7	870.4	853.5
65°	1315.7	981.4	810.4	847.3	850.4	828.9	802.7	781.1	770.3	779.6	771.8
67.5°	751.8	750.3	742.6	781.1	779.6	758.0	716.4	697.9	679.4	682.5	677.9
70°	637.8	650.1	665.5	688.7	687.1	662.5	613.2	599.3	573.1	570.0	562.3
72.5°	502.2	523.8	557.7	574.6	560.8	530.0	497.6	474.5	451.4	437.5	442.2
75°	372.8	403.6	422.1	432.9	411.3	394.4	368.2	340.5	312.7	300.4	295.8
77.5°	271.1	280.4	297.3	305.0	291.2	274.2	258.8	231.1	204.9	188.0	183.3
80°	189.5	195.7	208.0	208.0	208.0	200.3	180.3	152.5	135.6	120.2	117.1
82.5°	132.5	138.7	151.0	144.8	143.3	134.0	121.7	100.1	81.7	70.9	67.8
85°	46.2	50.8	61.6	73.9	78.6	77.0	69.3	55.5	43.1	35.4	32.4
87.5°	10.8	10.8	12.3	10.8	10.8	12.3	10.8	10.8	10.8	7.7	6.2
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)