

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: P647879

Luminaire Tested: **GALN-SA4A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647879
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-SA4A-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 11983.8 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

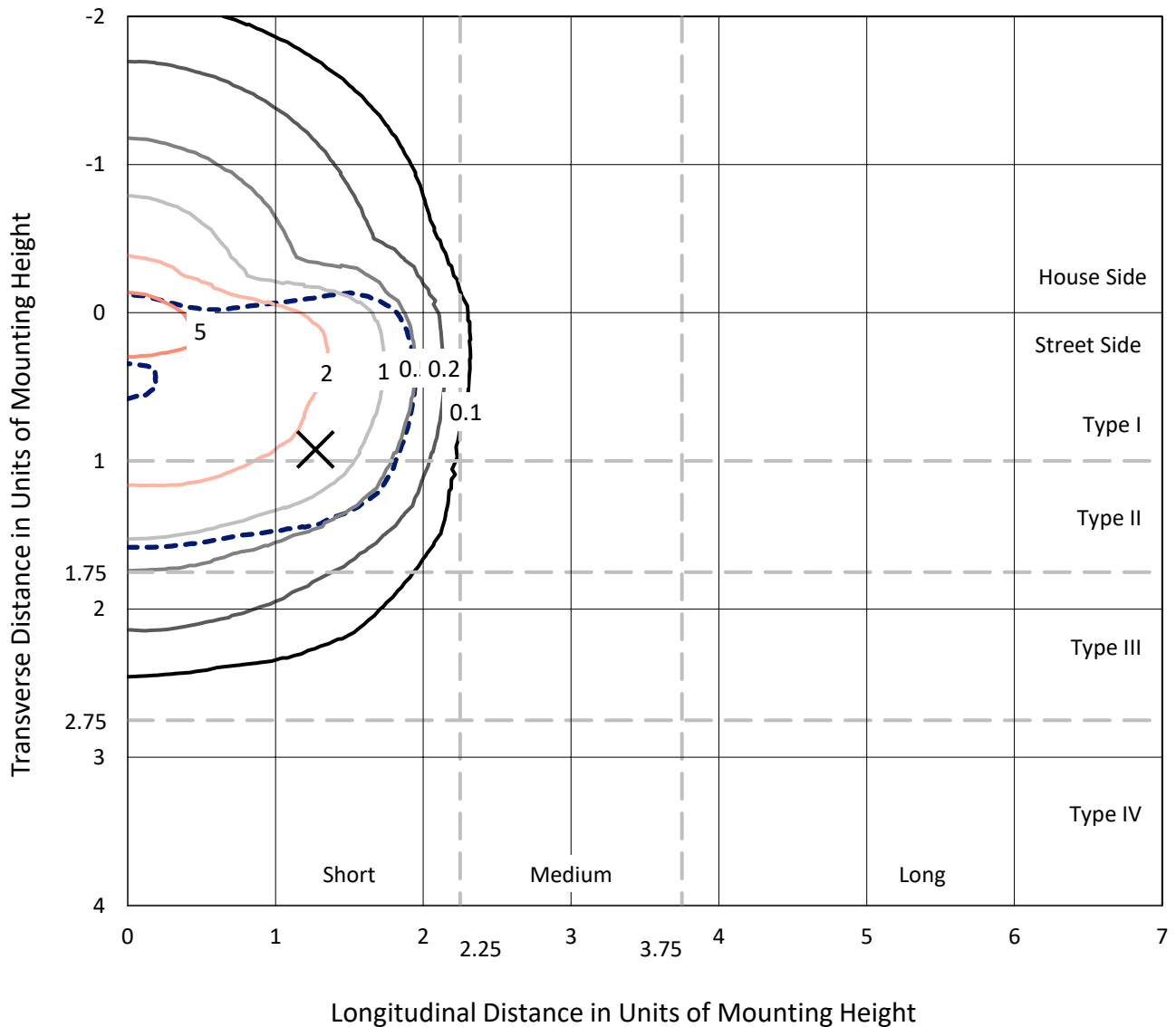
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

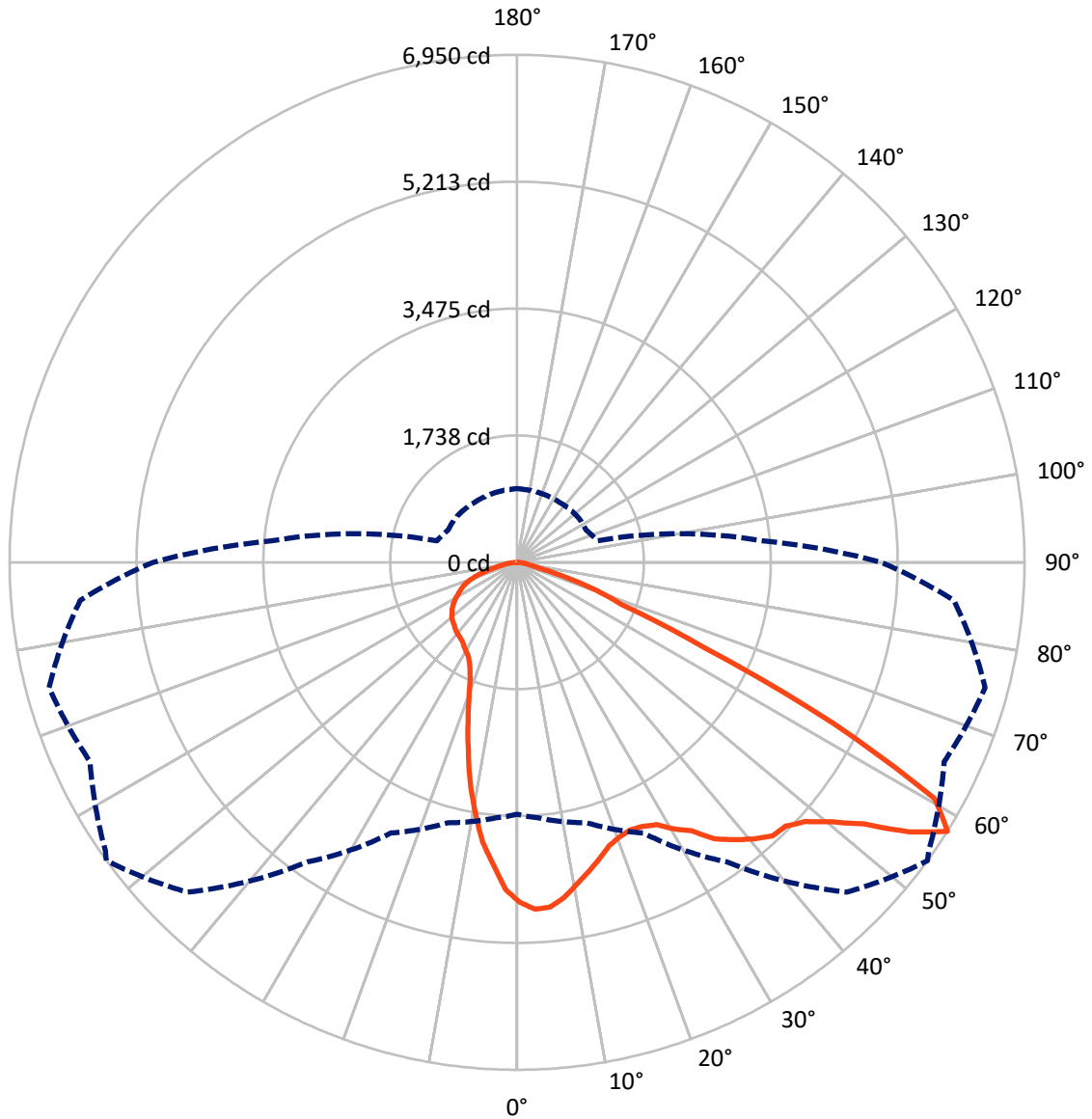
✕ Max cd
 - - - 1/2 Max cd



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	3315.4	0.0	3315.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8668.4	0.0	8668.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	11983.8	0.0	11983.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	3.4
10°-20°	930.1	7.8
20°-30°	1306.8	10.9
30°-40°	1826.9	15.2
40°-50°	2473.3	20.6
50°-60°	3012.6	25.1
60°-70°	1569.1	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°	11983.8	100.0
0°-180°	11983.8	100.0

Coefficient of Utilization



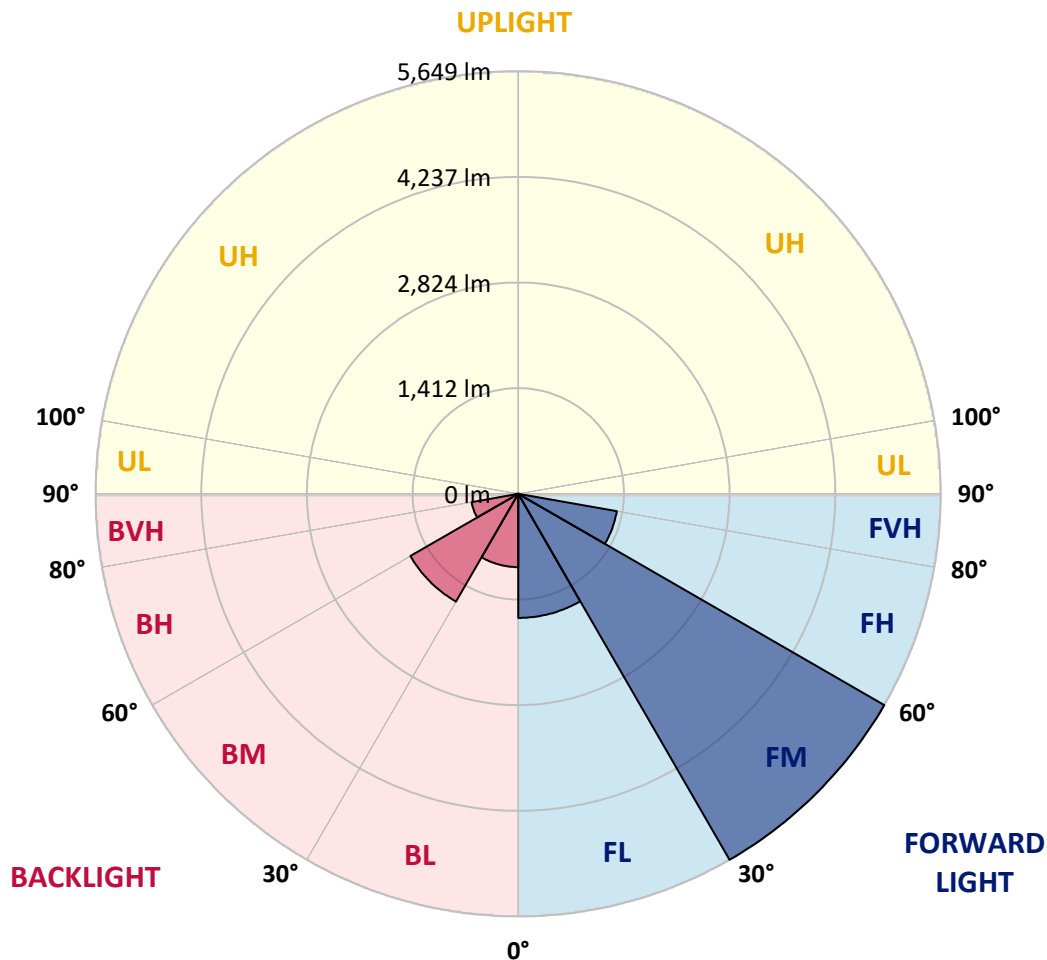
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.7	13.8			
FM (30°-60°)	5648.8	47.1			
FH (60°-80°)	1337.7	11.2			G1/1800
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	979.9	8.2	B2/1000		
BM (30°-60°)	1664.0	13.9	B2/2500		
BH (60°-80°)	633.4	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°	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0
2.5°	4790.5	4772.0	4775.0	4799.7	4768.9	4756.6	4756.6	4696.5	4701.1	4659.5	4648.7
5°	4679.5	4636.4	4665.7	4702.6	4708.8	4721.1	4741.1	4725.7	4682.7	4637.9	4565.5
7.5°	4390.0	4428.5	4439.2	4465.4	4520.9	4571.7	4634.9	4591.7	4590.2	4545.5	4502.4
10°	4135.8	4112.7	4171.2	4209.7	4302.2	4386.8	4483.9	4479.3	4502.4	4451.6	4377.6
12.5°	3883.2	3864.7	3892.4	3980.2	4109.6	4232.8	4348.4	4305.2	4428.5	4419.3	4260.5
15°	3615.2	3629.0	3669.1	3750.7	3920.2	4068.0	4214.3	4215.9	4325.3	4362.2	4149.7
17.5°	3427.3	3411.8	3462.7	3584.3	3735.3	3912.4	4078.8	4112.7	4280.6	4302.2	4115.8
20°	3287.1	3308.6	3374.9	3436.5	3610.6	3824.6	4012.6	4024.9	4271.3	4329.9	4061.9
22.5°	3253.2	3240.8	3262.4	3362.5	3505.8	3738.4	3977.2	4023.4	4269.8	4320.7	3960.2
25°	3217.7	3257.8	3256.3	3356.4	3461.1	3669.1	4006.4	4057.3	4351.4	4368.4	3974.0
27.5°	3297.8	3293.2	3336.4	3344.0	3473.5	3687.5	4068.0	4106.5	4487.0	4473.1	3984.8
30°	3377.9	3354.8	3381.1	3471.9	3532.0	3793.9	4237.4	4234.4	4662.6	4653.4	4018.7
32.5°	3476.5	3465.7	3482.7	3562.8	3664.4	3935.6	4380.7	4471.6	4841.3	4899.8	4135.8
35°	3495.0	3539.7	3579.7	3687.5	3832.3	4165.1	4650.2	4725.7	5047.7	5231.0	4359.1
37.5°	3612.1	3629.0	3723.0	3914.0	4046.5	4471.6	4821.2	4869.0	5235.6	5443.6	4594.8
40°	3736.9	3756.9	3898.6	4098.8	4280.6	4671.8	4981.4	4996.9	5295.7	5606.8	4748.8
42.5°	3906.3	3924.8	4064.9	4316.1	4559.4	4842.8	5123.2	5140.1	5291.0	5794.7	4993.7
45°	4081.9	4126.6	4291.4	4576.3	4795.1	5043.1	5155.5	5224.8	5334.2	5962.6	5192.5
47.5°	4328.3	4369.9	4505.5	4784.3	5039.9	5218.6	5304.9	5372.7	5437.4	6109.0	5320.3
50°	4590.2	4597.9	4762.7	5015.3	5203.3	5417.3	5583.7	5606.8	5572.9	6278.4	5537.5
52.5°	4782.7	4807.4	4935.2	5181.7	5462.1	5725.5	5953.4	5978.0	5911.8	6341.6	5611.4
55°	4463.9	4450.0	4658.0	4986.1	5636.1	6184.4	6515.6	6534.1	6158.3	6537.2	5853.2
57.5°	3450.4	3516.6	3693.7	4089.6	5007.6	6387.8	6950.0	6883.7	6454.0	6635.8	6007.3
60°	2507.6	2492.3	2610.8	2875.8	3773.8	5505.2	6571.1	6638.8	6212.2	5981.1	4953.7
62.5°	2042.5	2020.9	2030.2	2039.4	2435.3	3653.6	4864.4	4862.8	4784.3	4299.1	3341.0
65°	1632.8	1683.6	1688.2	1757.5	1808.3	2182.7	2818.8	2969.8	2586.2	2121.1	1538.8
67.5°	1230.7	1212.2	1273.9	1520.3	1615.8	1575.8	1538.8	1555.7	1106.0	797.9	751.7
70°	725.5	717.8	791.8	1059.7	1330.9	1252.3	1159.9	1161.4	759.4	557.6	620.8
72.5°	397.4	395.9	411.2	537.6	756.3	785.6	696.2	717.8	452.9	451.3	485.2
75°	221.8	217.2	212.6	237.2	272.6	288.1	294.2	297.3	311.2	348.1	362.0
77.5°	81.7	78.5	78.5	90.9	115.5	144.8	183.3	186.4	220.3	252.6	266.5
80°	27.7	30.8	41.6	57.0	77.0	103.2	124.7	127.9	155.6	177.1	181.7
82.5°	16.9	18.5	27.7	40.0	55.4	72.4	92.4	94.0	115.5	129.4	135.5
85°	7.7	9.2	15.4	24.7	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°	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0	4658.0
2.5°	4616.4	4599.4	4547.0	4500.8	4487.0	4425.4	4334.5	4345.3	4279.0	4309.9	4277.5
5°	4553.2	4496.2	4362.2	4305.2	4155.9	4088.0	4041.8	3926.3	3872.4	3861.6	3815.4
7.5°	4391.5	4356.1	4188.2	4034.2	3875.5	3739.9	3565.9	3447.2	3362.5	3339.4	3271.7
10°	4263.7	4185.1	3952.5	3718.4	3491.9	3256.3	3029.8	2852.7	2766.4	2666.3	2632.4
12.5°	4137.4	4018.7	3704.5	3404.2	3111.5	2814.2	2540.0	2324.3	2136.4	2091.8	2076.4
15°	4058.8	3852.4	3482.7	3120.7	2704.8	2316.7	2042.5	1900.8	1785.2	1737.5	1771.4
17.5°	3955.6	3715.3	3270.1	2788.0	2330.5	1973.2	1743.7	1655.9	1614.2	1618.9	1605.0
20°	3826.2	3585.9	2991.3	2486.1	1996.3	1711.3	1580.4	1548.1	1554.2	1565.0	1560.4
22.5°	3733.7	3428.8	2789.5	2178.1	1725.2	1566.5	1512.6	1489.5	1509.5	1518.8	1511.0
25°	3663.0	3294.8	2544.7	1905.4	1568.0	1484.9	1460.2	1458.7	1489.5	1501.8	1494.1
27.5°	3598.2	3170.0	2301.2	1697.5	1463.3	1421.7	1414.0	1432.5	1452.5	1464.8	1475.6
30°	3559.7	3074.5	2073.3	1523.4	1411.0	1390.9	1377.1	1394.0	1404.8	1417.1	1411.0
32.5°	3596.7	3006.7	1853.0	1424.8	1367.8	1347.8	1366.3	1355.5	1374.0	1384.7	1367.8
35°	3712.2	2946.7	1695.9	1372.4	1318.5	1326.2	1329.3	1324.7	1332.4	1323.1	1343.2
37.5°	3826.2	2925.1	1551.1	1327.7	1295.4	1295.4	1292.3	1283.1	1298.5	1295.4	1304.6
40°	3971.0	2939.0	1427.9	1280.0	1273.9	1270.8	1258.4	1256.9	1250.8	1252.3	1255.4
42.5°	4097.3	2969.8	1357.0	1249.2	1253.8	1260.0	1236.9	1218.4	1226.1	1210.7	1210.7
45°	4231.3	2997.5	1293.9	1227.7	1223.0	1221.5	1203.0	1192.2	1186.1	1187.6	1201.4
47.5°	4442.4	3037.6	1246.1	1198.4	1201.4	1178.3	1173.7	1159.9	1166.0	1175.3	1176.8
50°	4591.7	3122.3	1209.2	1164.5	1175.3	1159.9	1132.1	1126.0	1126.0	1141.4	1138.3
52.5°	4696.5	3240.8	1173.7	1127.5	1132.1	1119.8	1110.6	1096.7	1087.5	1109.0	1119.8
55°	5016.8	3438.0	1164.5	1096.7	1095.2	1082.9	1065.9	1052.0	1047.4	1050.5	1072.1
57.5°	4986.1	3376.4	1135.2	1042.8	1039.7	1022.8	1005.8	1001.2	999.7	1002.8	1008.9
60°	4048.0	2493.8	1013.5	981.2	976.6	973.5	956.5	938.0	928.8	938.0	930.4
62.5°	2678.6	1669.7	893.4	907.3	910.3	902.6	874.9	856.4	859.5	870.3	853.3
65°	1315.4	981.2	810.2	847.2	850.3	828.7	802.5	781.0	770.2	779.4	771.7
67.5°	751.7	750.1	742.4	781.0	779.4	757.9	716.3	697.8	679.3	682.4	677.8
70°	637.7	650.0	665.4	688.5	687.0	662.3	613.1	599.2	573.0	569.9	562.2
72.5°	502.1	523.7	557.6	574.6	560.7	529.9	497.5	474.4	451.3	437.5	442.1
75°	372.8	403.6	422.0	432.8	411.2	394.3	368.2	340.4	312.7	300.4	295.7
77.5°	271.1	280.3	297.3	305.0	291.1	274.2	258.8	231.1	204.8	187.9	183.3
80°	189.5	195.6	208.0	208.0	208.0	200.2	180.2	152.5	135.5	120.1	117.1
82.5°	132.5	138.6	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	78.5	77.0	69.3	55.4	43.1	35.4	32.3
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)