

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: P652279

Luminaire Tested: **GALN-SA3B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652279
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-SA3B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 12085.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

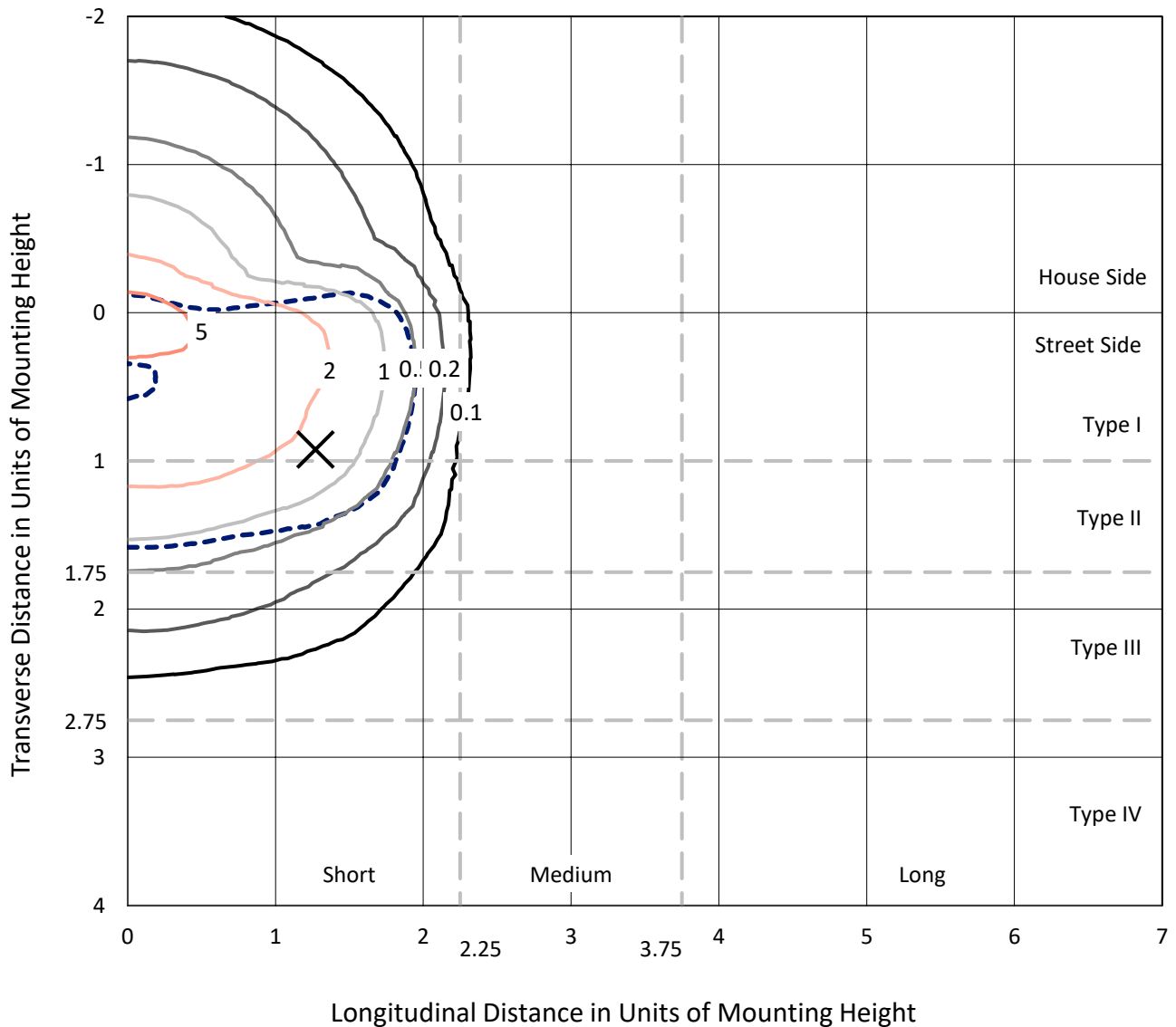
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

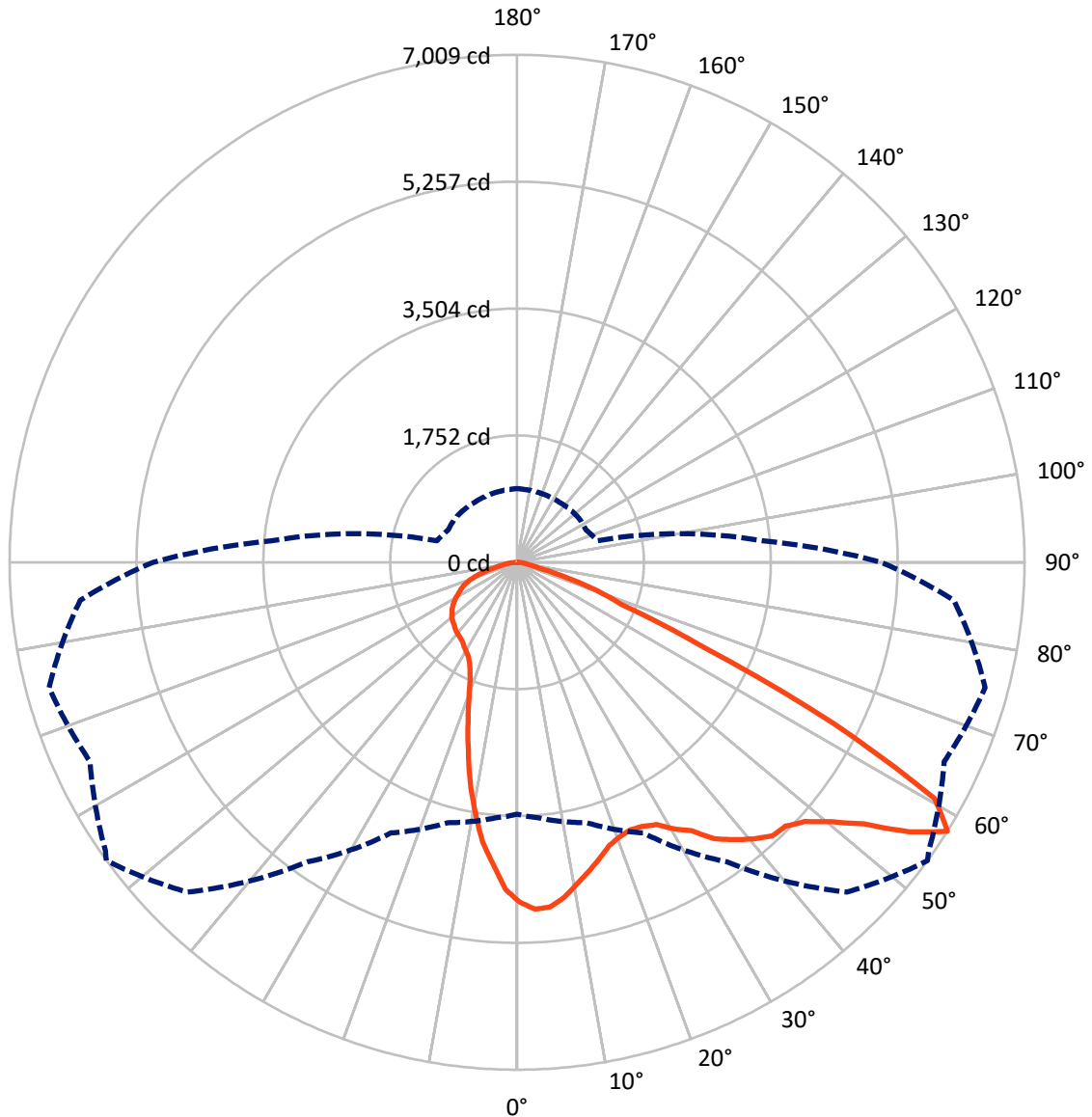
✕ Max cd
 - - - 1/2 Max cd



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	3343.4	0.0	3343.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8741.7	0.0	8741.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	12085.2	0.0	12085.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	3.4
10°-20°	938.0	7.8
20°-30°	1317.8	10.9
30°-40°	1842.4	15.2
40°-50°	2494.2	20.6
50°-60°	3038.1	25.1
60°-70°	1582.3	13.1
70°-80°	405.5	3.4
80°-90°	61.8	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°	12085.2	100.0
0°-180°	12085.2	100.0

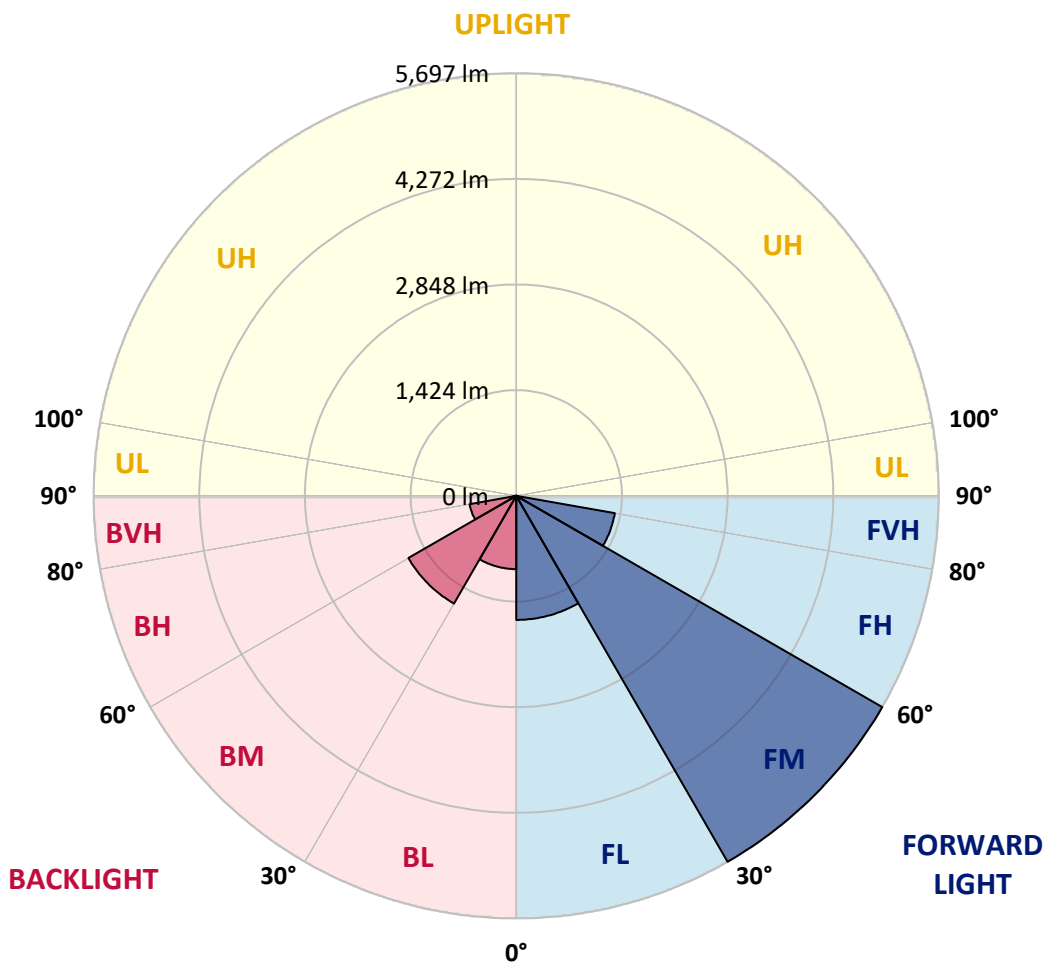


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.8	13.8			
FM (30°-60°)	5696.6	47.1			
FH (60°-80°)	1349.0	11.2			G1/1800
FVH (80°-90°)	23.4	0.2			G1/100
BL (0°-30°)	988.2	8.2	B2/1000		
BM (30°-60°)	1678.0	13.9	B2/2500		
BH (60°-80°)	638.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	38.5	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°	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4831.0	4812.3	4815.4	4840.3	4809.2	4796.8	4796.8	4736.2	4740.9	4698.9	4688.1
5°	4719.1	4675.6	4705.1	4742.4	4748.6	4761.1	4781.3	4765.7	4722.2	4677.1	4604.1
7.5°	4427.1	4465.9	4476.8	4503.2	4559.1	4610.4	4674.0	4630.5	4629.0	4584.0	4540.5
10°	4170.8	4147.5	4206.5	4245.4	4338.6	4424.0	4521.8	4517.2	4540.5	4489.3	4414.7
12.5°	3916.0	3897.4	3925.4	4013.9	4144.4	4268.7	4385.1	4341.7	4465.9	4456.6	4296.6
15°	3645.7	3659.7	3700.1	3782.4	3953.3	4102.4	4250.0	4251.6	4361.8	4399.1	4184.7
17.5°	3456.3	3440.7	3491.9	3614.7	3766.9	3945.6	4113.3	4147.5	4316.8	4338.6	4150.6
20°	3314.9	3336.6	3403.4	3465.6	3641.1	3857.0	4046.5	4058.9	4307.4	4366.5	4096.2
22.5°	3280.7	3268.3	3290.0	3391.0	3535.5	3770.0	4010.8	4057.4	4305.9	4357.2	3993.7
25°	3245.0	3285.4	3283.8	3384.8	3490.4	3700.1	4040.3	4091.5	4388.3	4405.3	4007.7
27.5°	3325.7	3321.1	3364.6	3372.3	3502.8	3718.7	4102.4	4141.3	4524.9	4511.0	4018.6
30°	3406.6	3383.3	3409.7	3501.3	3561.9	3826.0	4273.3	4270.2	4702.0	4692.7	4052.7
32.5°	3506.0	3495.0	3512.2	3592.9	3695.4	3968.8	4417.8	4509.4	4882.3	4941.2	4170.8
35°	3524.5	3569.6	3610.0	3718.7	3864.7	4200.3	4689.6	4765.7	5090.4	5275.3	4396.0
37.5°	3642.6	3659.7	3754.5	3947.1	4080.7	4509.4	4862.0	4910.2	5279.9	5489.5	4633.7
40°	3768.4	3788.6	3931.6	4133.5	4316.8	4711.4	5023.5	5039.1	5340.4	5654.2	4789.0
42.5°	3939.3	3958.0	4099.3	4352.5	4597.9	4883.8	5166.5	5183.6	5335.8	5843.8	5036.0
45°	4116.4	4161.4	4327.7	4615.1	4835.6	5085.7	5199.1	5269.0	5379.3	6013.1	5236.4
47.5°	4365.0	4406.9	4543.6	4824.7	5082.6	5262.8	5349.8	5418.1	5483.4	6160.7	5365.3
50°	4629.0	4636.8	4803.0	5057.8	5247.3	5463.1	5630.9	5654.2	5620.1	6331.5	5584.3
52.5°	4823.2	4848.0	4977.0	5225.5	5508.2	5773.9	6003.7	6028.6	5961.8	6395.2	5658.9
55°	4501.6	4487.7	4697.4	5028.3	5683.7	6236.8	6570.7	6589.4	6210.4	6592.4	5902.8
57.5°	3479.6	3546.3	3725.0	4124.2	5050.0	6441.8	7008.8	6942.0	6508.6	6691.9	6058.1
60°	2528.9	2513.3	2632.9	2900.1	3805.8	5551.7	6626.7	6695.0	6264.7	6031.7	4995.6
62.5°	2059.8	2038.0	2047.3	2056.7	2455.9	3684.6	4905.6	4904.0	4824.7	4335.4	3369.2
65°	1646.6	1697.8	1702.5	1772.4	1823.6	2201.1	2842.7	2994.9	2608.1	2139.0	1551.8
67.5°	1241.1	1222.5	1284.6	1533.1	1629.4	1589.1	1551.8	1568.9	1115.3	804.7	758.1
70°	731.7	723.8	798.4	1068.7	1342.1	1262.8	1169.7	1171.3	765.8	562.3	626.0
72.5°	400.7	399.2	414.8	542.1	762.7	792.2	702.2	723.8	456.7	455.1	489.3
75°	223.7	219.0	214.4	239.2	274.9	290.5	296.7	299.8	313.8	351.0	365.1
77.5°	82.3	79.2	79.2	91.7	116.5	146.0	184.9	188.0	222.1	254.7	268.7
80°	27.9	31.0	42.0	57.4	77.7	104.1	125.8	128.9	156.9	178.6	183.3
82.5°	17.1	18.7	27.9	40.4	55.9	73.0	93.2	94.8	116.5	130.5	136.7
85°	7.7	9.3	15.6	24.9	35.7	48.2	49.7	49.7	48.2	49.7	46.6
87.5°	0.0	0.0	3.1	3.1	3.1	4.6	6.2	4.6	7.7	9.3	9.3
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°	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4655.4	4638.4	4585.6	4539.0	4524.9	4462.9	4371.2	4382.0	4315.3	4346.3	4313.7
5°	4591.8	4534.3	4399.1	4341.7	4191.0	4122.6	4076.0	3959.5	3905.2	3894.3	3847.7
7.5°	4428.6	4392.9	4223.6	4068.3	3908.3	3771.5	3596.0	3476.4	3391.0	3367.7	3299.3
10°	4299.7	4220.5	3985.9	3749.9	3521.4	3283.8	3055.4	2876.8	2789.8	2688.8	2654.7
12.5°	4172.4	4052.7	3735.8	3433.0	3137.8	2838.0	2561.5	2344.0	2154.5	2109.5	2093.9
15°	4093.1	3885.0	3512.2	3147.1	2727.7	2336.3	2059.8	1916.8	1800.3	1752.2	1786.4
17.5°	3989.0	3746.7	3297.8	2811.5	2350.3	1989.9	1758.4	1669.9	1627.9	1632.5	1618.6
20°	3858.6	3616.2	3016.7	2507.1	2013.2	1725.8	1593.8	1561.1	1567.4	1578.2	1573.6
22.5°	3765.3	3457.8	2813.1	2196.4	1739.8	1579.7	1525.4	1502.1	1522.3	1531.6	1523.8
25°	3693.9	3322.6	2566.1	1921.5	1581.3	1497.4	1472.6	1471.0	1502.1	1514.6	1506.7
27.5°	3628.7	3196.8	2320.7	1711.8	1475.7	1433.7	1426.0	1444.6	1464.9	1477.2	1488.1
30°	3589.8	3100.5	2090.8	1536.3	1422.9	1402.7	1388.7	1405.8	1416.7	1429.1	1422.9
32.5°	3627.1	3032.1	1868.7	1436.8	1379.4	1359.2	1377.8	1367.0	1385.6	1396.5	1379.4
35°	3743.6	2971.6	1710.3	1384.0	1329.7	1337.4	1340.6	1335.9	1343.7	1334.3	1354.5
37.5°	3858.6	2949.8	1564.3	1339.0	1306.4	1306.4	1303.3	1294.0	1309.5	1306.4	1315.7
40°	4004.6	2963.9	1440.0	1290.9	1284.6	1281.5	1269.1	1267.6	1261.3	1262.8	1266.0
42.5°	4131.9	2994.9	1368.5	1259.8	1264.4	1270.7	1247.4	1228.7	1236.4	1221.0	1221.0
45°	4267.1	3022.8	1304.8	1238.0	1233.4	1231.8	1213.1	1202.3	1196.1	1197.7	1211.6
47.5°	4479.9	3063.3	1256.7	1208.5	1211.6	1188.3	1183.6	1169.7	1175.9	1185.2	1186.7
50°	4630.5	3148.7	1219.4	1174.4	1185.2	1169.7	1141.7	1135.5	1135.5	1151.1	1148.0
52.5°	4736.2	3268.3	1183.6	1137.0	1141.7	1129.3	1120.0	1106.0	1096.7	1118.4	1129.3
55°	5059.3	3467.1	1174.4	1106.0	1104.4	1092.0	1075.0	1060.9	1056.3	1059.4	1081.1
57.5°	5028.3	3405.0	1144.9	1051.6	1048.6	1031.4	1014.3	1009.7	1008.1	1011.2	1017.4
60°	4082.2	2514.9	1022.2	989.5	984.8	981.7	964.6	946.0	936.7	946.0	938.2
62.5°	2701.3	1683.9	901.0	914.9	918.0	910.3	882.3	863.7	866.7	877.7	860.6
65°	1326.6	989.5	817.0	854.4	857.5	835.7	809.3	787.6	776.7	786.0	778.3
67.5°	758.1	756.5	748.7	787.6	786.0	764.2	722.3	703.7	685.0	688.1	683.5
70°	643.1	655.6	671.0	694.3	692.8	667.9	618.2	604.3	577.9	574.7	567.0
72.5°	506.4	528.1	562.3	579.4	565.4	534.4	501.7	478.4	455.1	441.2	445.8
75°	375.9	407.0	425.6	436.5	414.8	397.6	371.2	343.3	315.3	302.9	298.2
77.5°	273.4	282.7	299.8	307.6	293.6	276.5	261.0	233.0	206.6	189.5	184.9
80°	191.1	197.3	209.7	209.7	209.7	201.9	181.7	153.8	136.7	121.2	118.1
82.5°	133.6	139.8	152.2	146.0	144.5	135.1	122.7	101.0	82.3	71.5	68.4
85°	46.6	51.3	62.1	74.6	79.2	77.7	69.9	55.9	43.5	35.7	32.6
87.5°	10.8	10.8	12.4	10.8	10.8	12.4	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)