

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: P648319

Luminaire Tested: **GALN-SA3B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648319  
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-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 11251.7 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

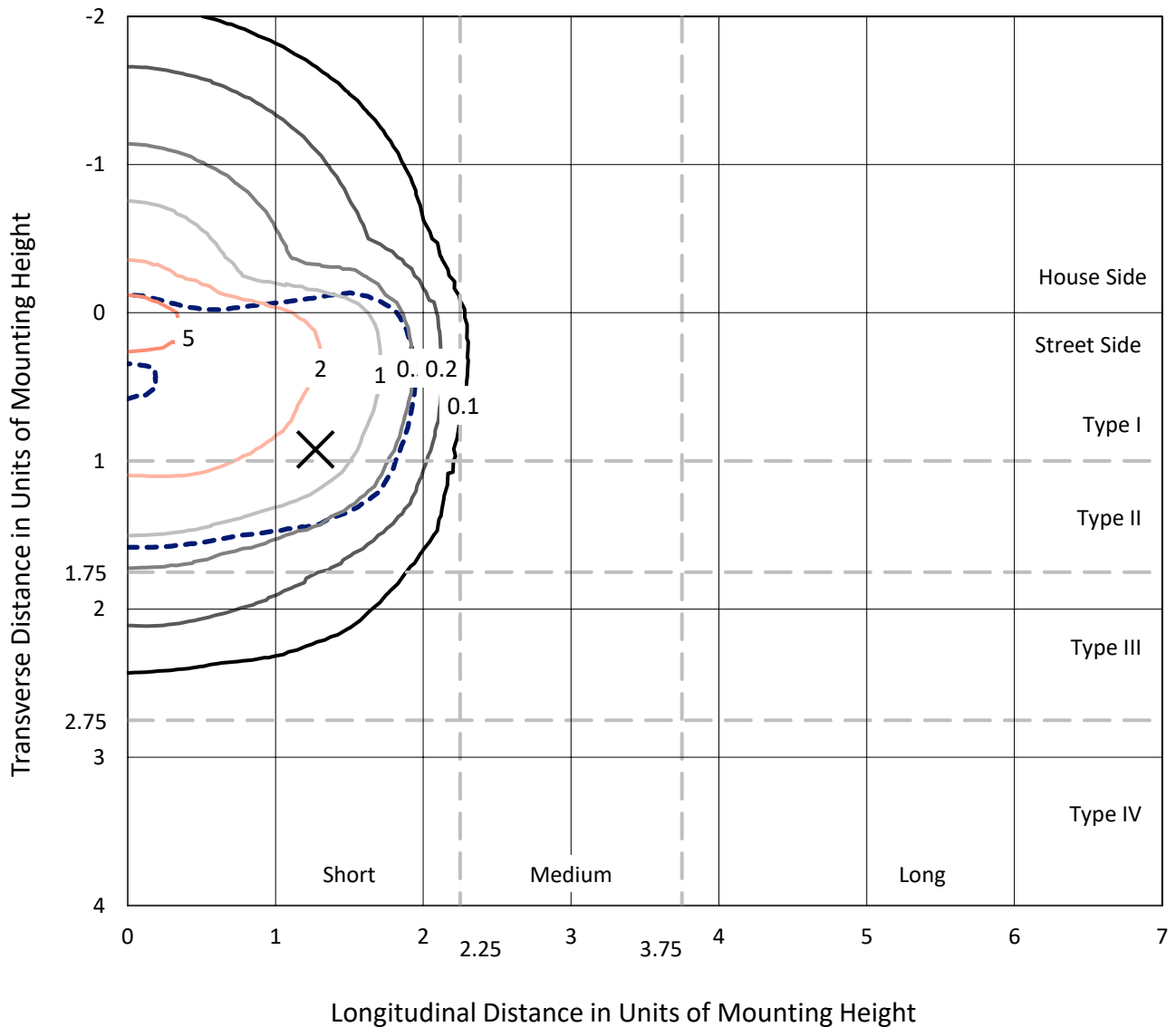
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648319  
 CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

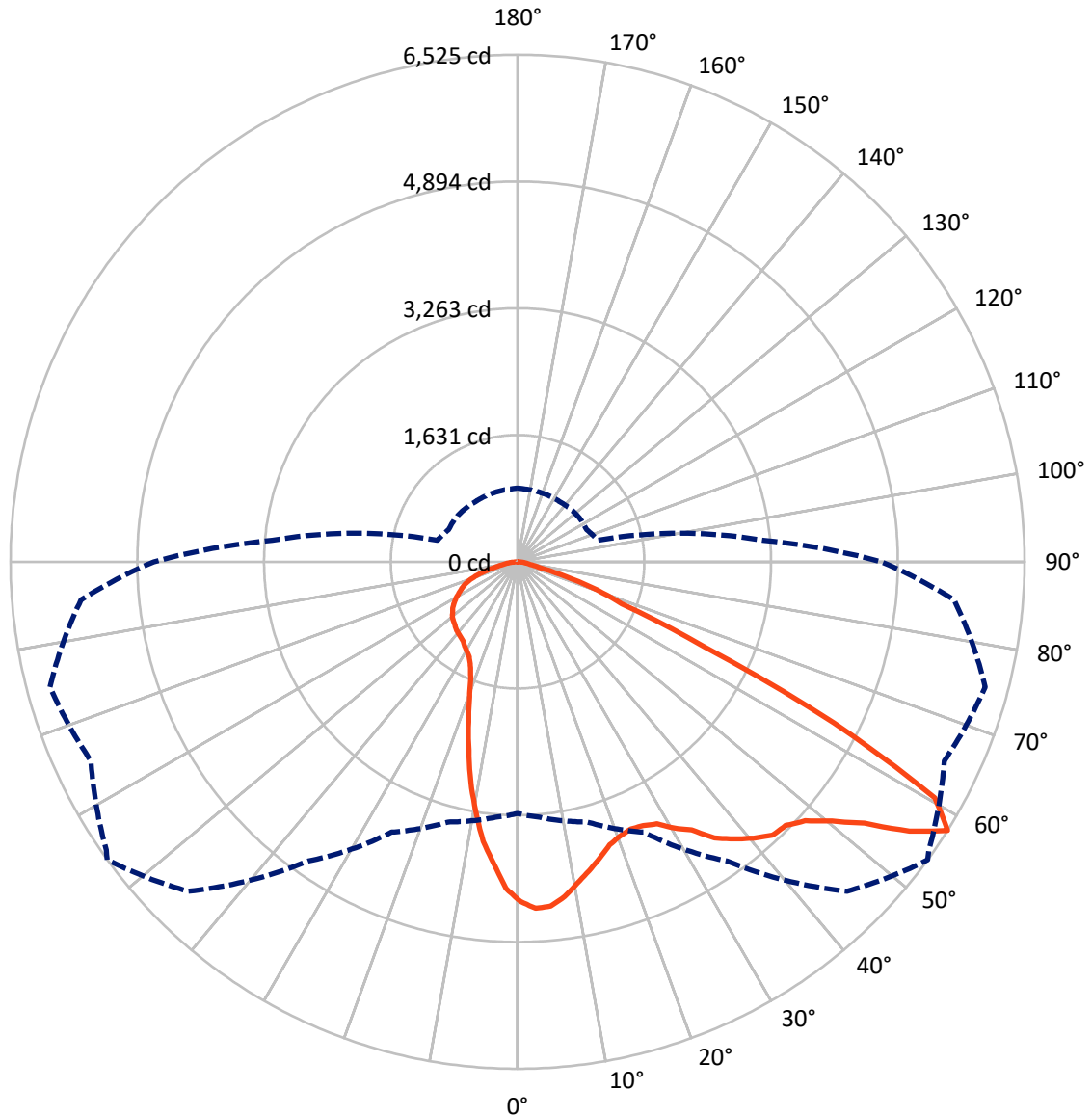
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

REPORT NUMBER: P648319  
CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648319  
 CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3112.9	0.0	3112.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	8138.9	0.0	8138.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	11251.7	0.0	11251.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.2	3.4
10°-20°	873.3	7.8
20°-30°	1227.0	10.9
30°-40°	1715.3	15.2
40°-50°	2322.2	20.6
50°-60°	2828.5	25.1
60°-70°	1473.2	13.1
70°-80°	377.5	3.4
80°-90°	57.6	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°	11251.7	100.0
0°-180°	11251.7	100.0

**Coefficient of Utilization**



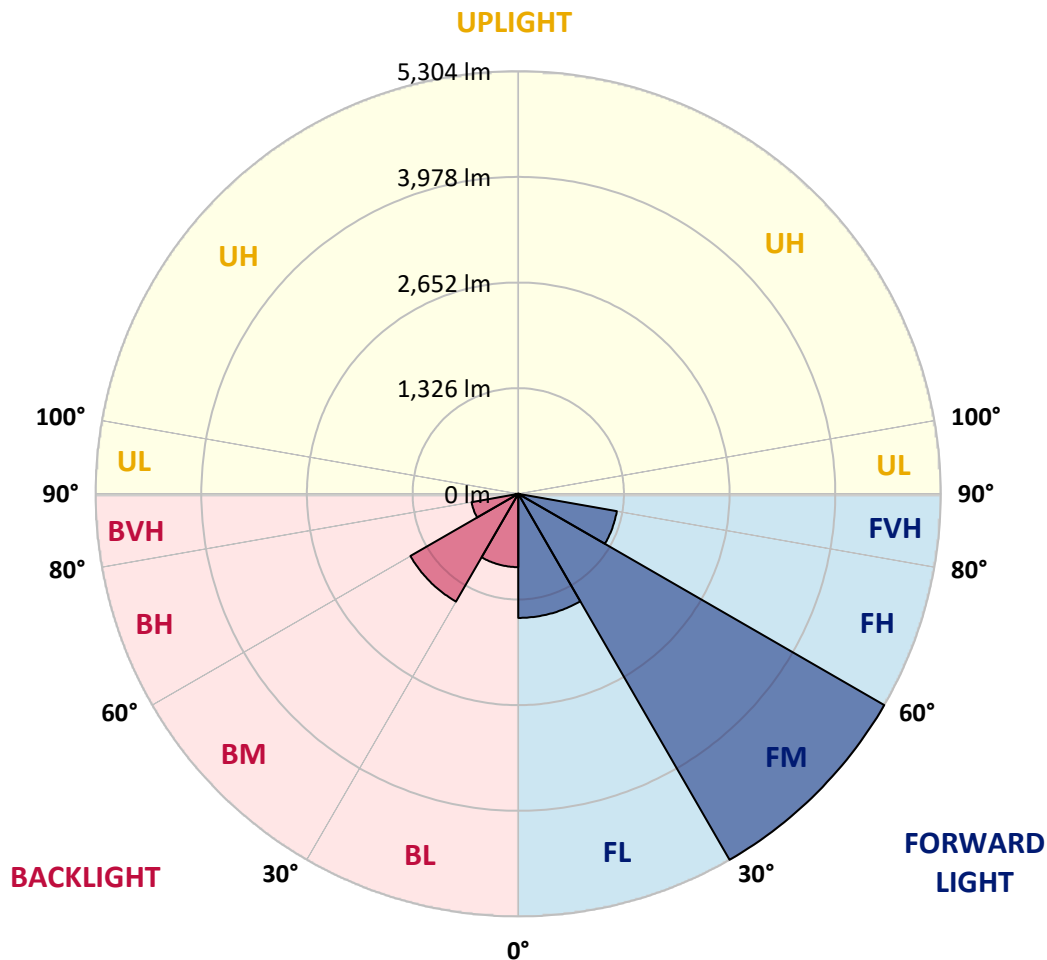
REPORT NUMBER: P648319  
 CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.4	13.8			
FM (30°-60°)	5303.7	47.1			
FH (60°-80°)	1256.0	11.2			G1/1800
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	920.0	8.2	B2/1000		
BM (30°-60°)	1562.3	13.9	B2/2500		
BH (60°-80°)	594.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.8	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





REPORT NUMBER: P648319

CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4
2.5°	4497.8	4480.4	4483.3	4506.5	4477.5	4466.0	4466.0	4409.5	4413.9	4374.9	4364.8
5°	4393.6	4353.2	4380.7	4415.3	4421.1	4432.7	4451.5	4437.0	4396.5	4354.6	4286.6
7.5°	4121.8	4157.9	4168.1	4192.7	4244.7	4292.4	4351.7	4311.2	4309.8	4267.8	4227.3
10°	3883.1	3861.4	3916.4	3952.6	4039.3	4118.9	4210.0	4205.6	4227.3	4179.7	4110.2
12.5°	3646.0	3628.6	3654.7	3737.1	3858.5	3974.3	4082.7	4042.2	4157.9	4149.3	4000.3
15°	3394.3	3407.3	3445.0	3521.5	3680.6	3819.5	3956.9	3958.4	4061.0	4095.7	3896.1
17.5°	3217.9	3203.4	3251.1	3365.4	3507.1	3673.4	3829.7	3861.4	4019.1	4039.3	3864.3
20°	3086.3	3106.5	3168.7	3226.6	3390.0	3591.0	3767.4	3779.0	4010.4	4065.3	3813.7
22.5°	3054.5	3042.9	3063.1	3157.1	3291.7	3510.0	3734.2	3777.6	4009.0	4056.7	3718.2
25°	3021.2	3058.8	3057.3	3151.3	3249.7	3445.0	3761.7	3809.4	4085.6	4101.5	3731.3
27.5°	3096.4	3092.1	3132.5	3139.8	3261.3	3462.3	3819.5	3855.6	4212.9	4199.9	3741.4
30°	3171.6	3149.9	3174.5	3259.8	3316.2	3562.1	3978.6	3975.7	4377.8	4369.1	3773.2
32.5°	3264.2	3254.0	3270.0	3345.1	3440.6	3695.1	4113.1	4198.4	4545.5	4600.4	3883.1
35°	3281.5	3323.4	3361.0	3462.3	3598.2	3910.6	4366.2	4437.0	4739.3	4911.4	4092.8
37.5°	3391.4	3407.3	3495.5	3674.9	3799.3	4198.4	4526.7	4571.5	4915.8	5111.0	4314.1
40°	3508.5	3527.3	3660.4	3848.4	4019.1	4386.4	4677.1	4691.6	4972.1	5264.3	4458.7
42.5°	3667.7	3685.0	3816.6	4052.3	4280.8	4547.0	4810.2	4826.1	4967.8	5440.8	4688.7
45°	3832.6	3874.4	4029.2	4296.8	4502.1	4735.0	4840.5	4905.7	5008.3	5598.4	4875.3
47.5°	4063.9	4103.0	4230.2	4492.0	4732.1	4899.9	4980.8	5044.5	5105.2	5735.8	4995.3
50°	4309.8	4317.0	4471.8	4709.0	4885.4	5086.4	5242.6	5264.3	5232.5	5894.8	5199.2
52.5°	4490.6	4513.7	4633.7	4865.1	5128.3	5375.7	5589.7	5612.9	5550.6	5954.2	5268.7
55°	4191.2	4178.2	4373.4	4681.5	5291.7	5806.6	6117.6	6135.0	5782.1	6137.8	5495.7
57.5°	3239.6	3301.8	3468.1	3839.8	4701.7	5997.5	6525.4	6463.2	6059.7	6230.4	5640.3
60°	2354.5	2340.0	2451.3	2700.1	3543.3	5168.8	6169.6	6233.3	5832.6	5615.8	4651.1
62.5°	1917.7	1897.4	1906.1	1914.8	2286.5	3430.5	4567.2	4565.8	4492.0	4036.4	3136.9
65°	1533.0	1580.7	1585.1	1650.2	1697.9	2049.3	2646.6	2788.3	2428.2	1991.5	1444.8
67.5°	1155.6	1138.2	1196.0	1427.4	1517.1	1479.5	1444.8	1460.7	1038.4	749.2	705.8
70°	681.2	673.9	743.4	995.0	1249.5	1175.8	1089.0	1090.5	713.0	523.5	582.9
72.5°	373.1	371.7	386.2	504.7	710.1	737.6	653.7	673.9	425.2	423.8	455.5
75°	208.3	203.9	199.6	222.7	256.0	270.4	276.2	279.1	292.1	326.8	339.9
77.5°	76.7	73.8	73.8	85.3	108.4	135.9	172.1	175.0	206.8	237.2	250.2
80°	26.0	28.9	39.1	53.5	72.3	96.9	117.1	120.0	146.1	166.3	170.7
82.5°	15.9	17.4	26.0	37.6	52.1	68.0	86.8	88.2	108.4	121.5	127.2
85°	7.2	8.7	14.5	23.2	33.3	44.9	46.3	46.3	44.9	46.3	43.4
87.5°	0.0	0.0	2.9	2.9	2.9	4.3	5.8	4.3	7.2	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648319

CATALOG NUMBER: GALN-SA3B-835-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4
2.5°	4334.4	4318.5	4269.3	4225.9	4212.9	4155.1	4069.7	4079.8	4017.7	4046.5	4016.2
5°	4275.1	4221.5	4095.7	4042.2	3901.9	3838.3	3794.9	3686.4	3635.9	3625.7	3582.3
7.5°	4123.2	4089.9	3932.3	3787.7	3638.8	3511.4	3348.0	3236.7	3157.1	3135.4	3071.8
10°	4003.2	3929.4	3711.0	3491.2	3278.6	3057.3	2844.7	2678.4	2597.4	2503.4	2471.6
12.5°	3884.6	3773.2	3478.2	3196.2	2921.4	2642.2	2384.9	2182.4	2005.9	1964.0	1949.5
15°	3810.9	3617.1	3270.0	2930.1	2539.6	2175.2	1917.7	1784.6	1676.2	1631.4	1663.2
17.5°	3713.9	3488.3	3070.4	2617.6	2188.2	1852.7	1637.2	1554.7	1515.7	1520.0	1507.0
20°	3592.5	3366.8	2808.6	2334.2	1874.3	1606.8	1483.9	1453.5	1459.3	1469.4	1465.1
22.5°	3505.6	3219.3	2619.1	2045.0	1619.8	1470.8	1420.2	1398.5	1417.3	1426.0	1418.7
25°	3439.2	3093.5	2389.2	1789.0	1472.3	1394.1	1371.0	1369.5	1398.5	1410.1	1402.8
27.5°	3378.4	2976.3	2160.7	1593.7	1373.9	1334.9	1327.7	1345.0	1363.8	1375.3	1385.5
30°	3342.2	2886.7	1946.6	1430.3	1324.8	1306.0	1293.0	1308.9	1319.0	1330.6	1324.8
32.5°	3376.9	2823.0	1739.8	1337.8	1284.3	1265.5	1282.8	1272.7	1290.1	1300.2	1284.3
35°	3485.4	2766.7	1592.3	1288.6	1238.0	1245.2	1248.1	1243.8	1251.0	1242.3	1261.1
37.5°	3592.5	2746.4	1456.4	1246.7	1216.3	1216.3	1213.4	1204.7	1219.2	1216.3	1224.9
40°	3728.4	2759.4	1340.7	1201.8	1196.0	1193.1	1181.5	1180.1	1174.3	1175.8	1178.6
42.5°	3847.0	2788.3	1274.1	1172.9	1177.2	1183.0	1161.3	1144.0	1151.2	1136.8	1136.8
45°	3972.8	2814.3	1214.8	1152.7	1148.3	1146.9	1129.5	1119.4	1113.6	1115.1	1128.1
47.5°	4171.0	2852.0	1170.0	1125.2	1128.1	1106.4	1102.0	1089.0	1094.8	1103.5	1104.9
50°	4311.2	2931.6	1135.3	1093.4	1103.5	1089.0	1063.0	1057.2	1057.2	1071.7	1068.8
52.5°	4409.5	3042.9	1102.0	1058.6	1063.0	1051.4	1042.7	1029.7	1021.0	1041.3	1051.4
55°	4710.4	3228.0	1093.4	1029.7	1028.2	1016.7	1000.8	987.8	983.4	986.3	1006.5
57.5°	4681.5	3170.1	1065.9	979.1	976.2	960.3	944.4	940.1	938.6	941.5	947.3
60°	3800.7	2341.5	951.7	921.3	916.9	914.0	898.1	880.7	872.1	880.7	873.5
62.5°	2515.0	1567.7	838.8	851.8	854.7	847.5	821.4	804.1	807.0	817.1	801.2
65°	1235.1	921.3	760.7	795.4	798.3	778.1	753.5	733.3	723.1	731.8	724.6
67.5°	705.8	704.3	697.1	733.3	731.8	711.5	672.5	655.1	637.8	640.7	636.3
70°	598.8	610.3	624.8	646.4	645.0	621.9	575.6	562.6	538.0	535.1	527.9
72.5°	471.4	491.7	523.5	539.4	526.4	497.5	467.1	445.4	423.8	410.8	415.1
75°	350.0	378.9	396.3	406.4	386.2	370.2	345.6	319.6	293.5	282.0	277.7
77.5°	254.6	263.2	279.1	286.3	273.3	257.5	243.0	217.0	192.4	176.4	172.1
80°	177.9	183.7	195.3	195.3	195.3	188.0	169.2	143.2	127.2	112.8	109.9
82.5°	124.3	130.1	141.7	135.9	134.5	125.8	114.2	94.0	76.7	66.6	63.7
85°	43.4	47.8	57.9	69.5	73.8	72.3	65.1	52.1	40.5	33.3	30.4
87.5°	10.1	10.1	11.6	10.1	10.1	11.6	10.1	10.1	10.1	7.2	5.8
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)