

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: P527558

Luminaire Tested: **GALN-SA2C-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527558  
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-SA2C-750-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA 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: 11961 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

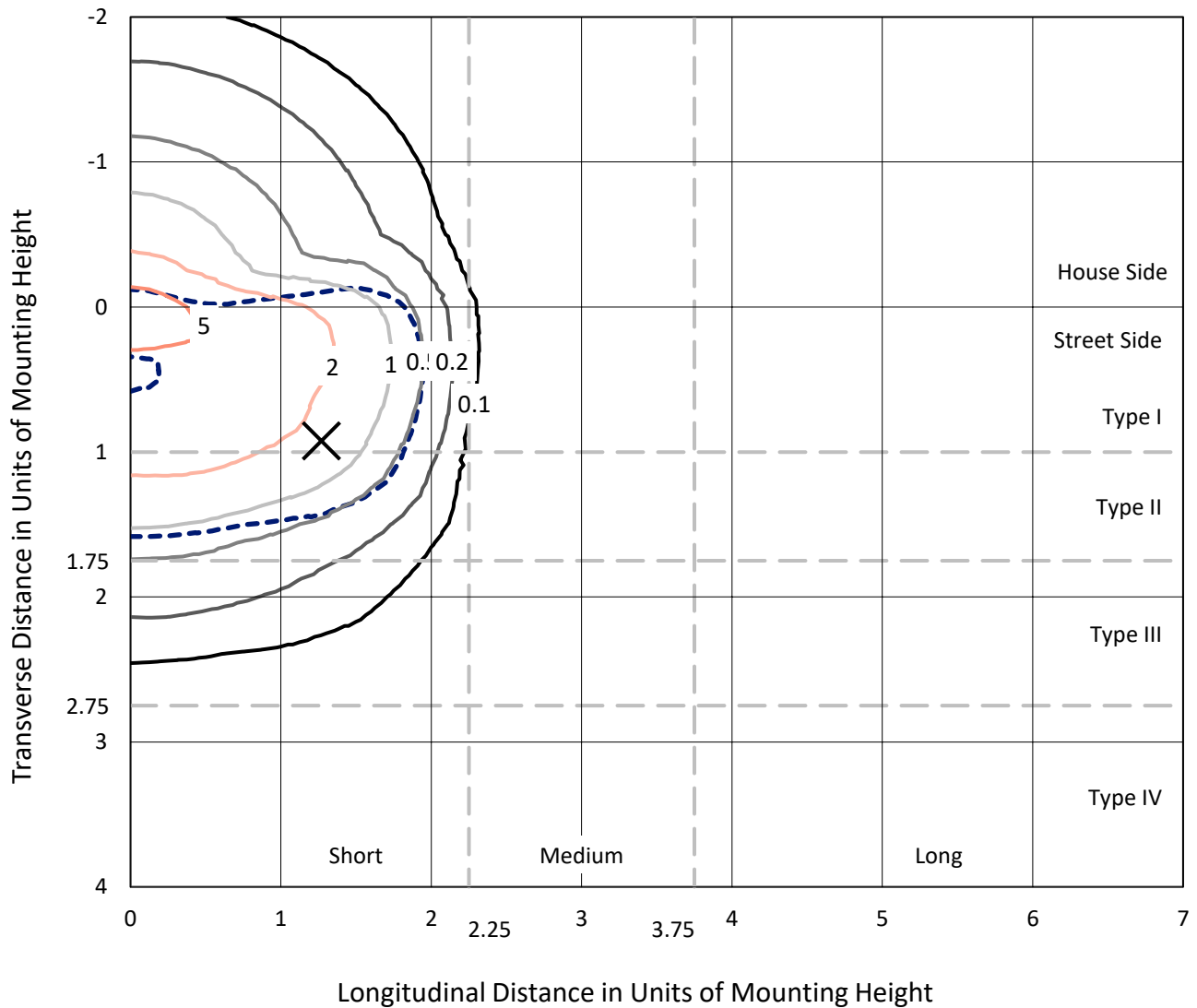
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

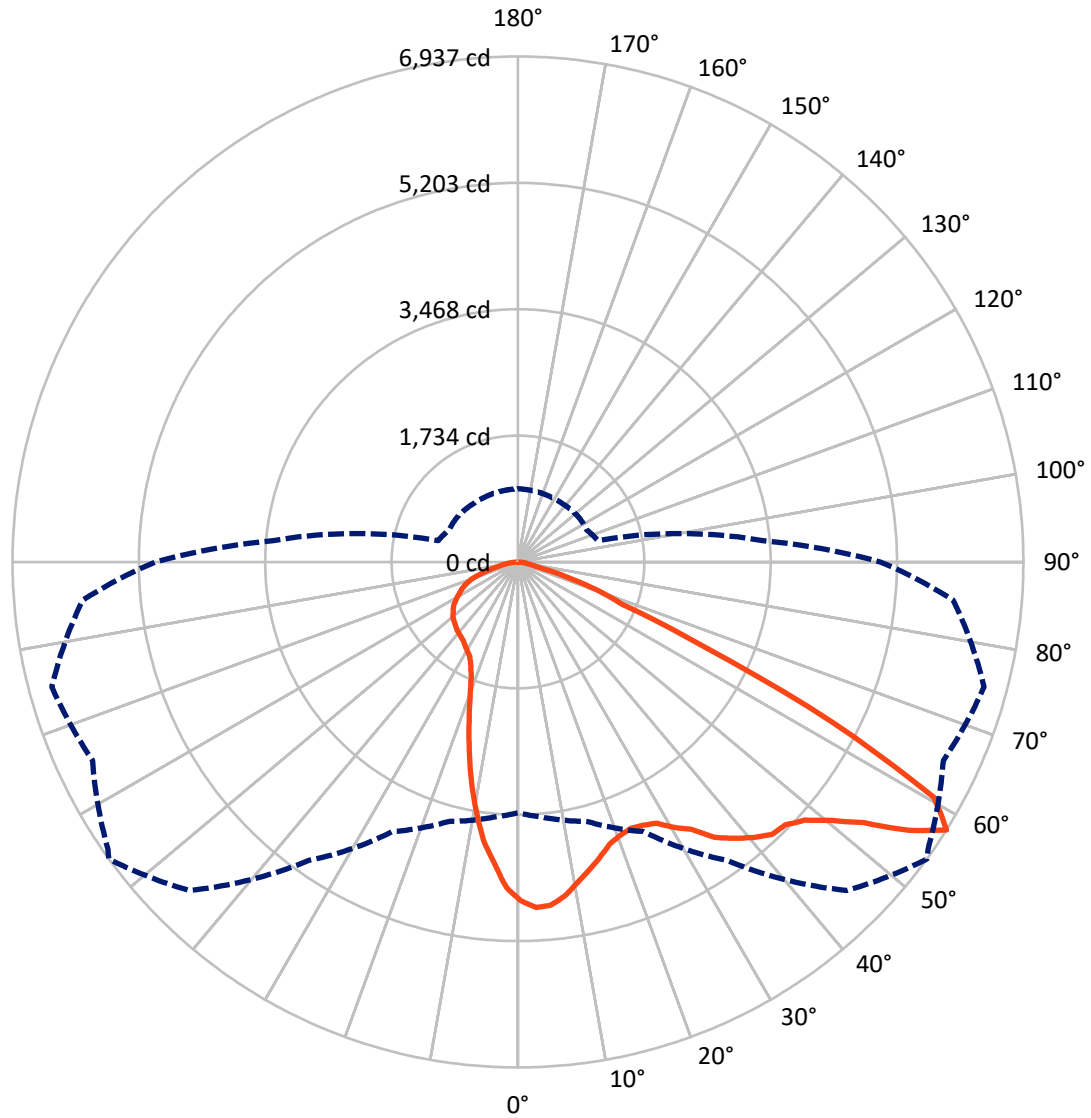
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	3309.1	0.0	3309.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	8651.9	0.0	8651.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	11961.0	0.0	11961.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.9	3.4
10°-20°	928.3	7.8
20°-30°	1304.3	10.9
30°-40°	1823.4	15.2
40°-50°	2468.6	20.6
50°-60°	3006.8	25.1
60°-70°	1566.1	13.1
70°-80°	401.3	3.4
80°-90°	61.2	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°	11961.0	100.0
0°-180°	11961.0	100.0

**Coefficient of Utilization**



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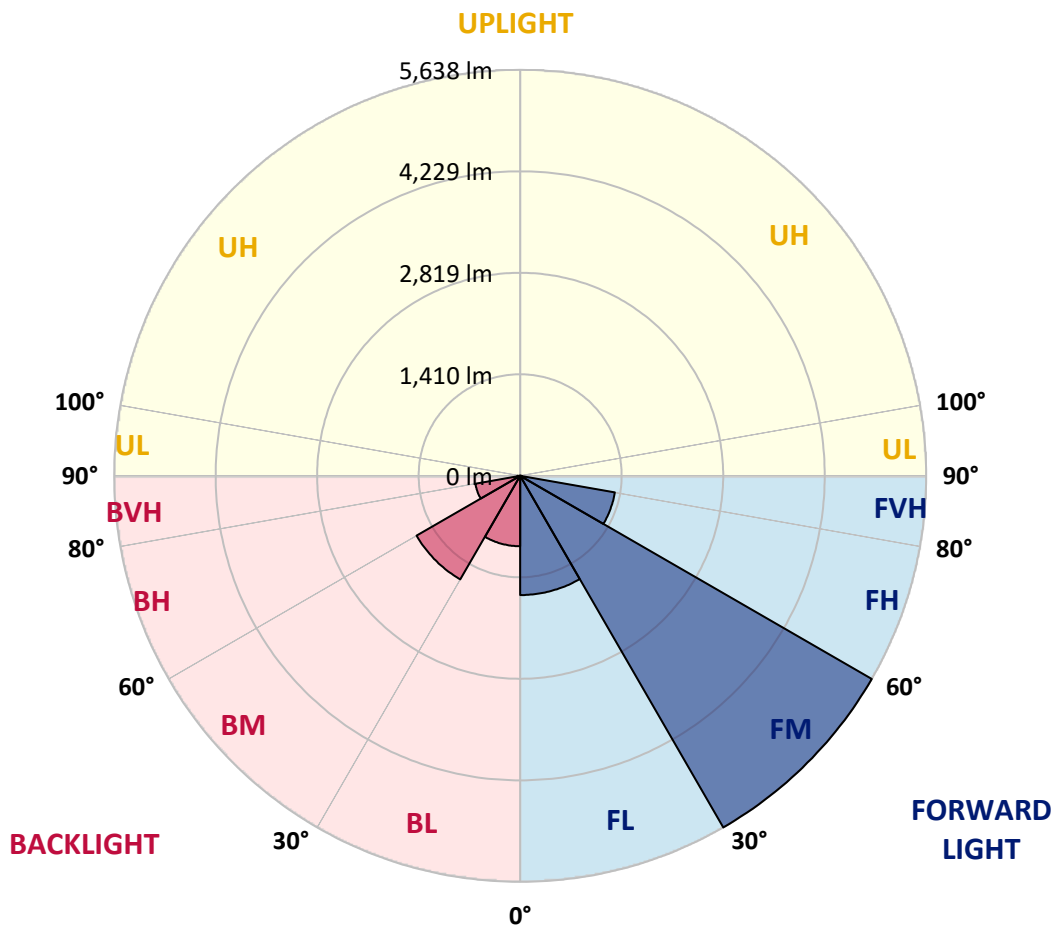
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.6	13.8			
FM (30°-60°)	5638.0	47.1			
FH (60°-80°)	1335.2	11.2			G1/1800
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	978.0	8.2	B2/1000		
BM (30°-60°)	1660.8	13.9	B2/2500		
BH (60°-80°)	632.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1
2.5°	4781.3	4762.9	4765.9	4790.5	4759.8	4747.5	4747.5	4687.5	4692.2	4650.6	4639.9
5°	4670.6	4627.6	4656.8	4693.7	4699.8	4712.1	4732.1	4716.7	4673.7	4629.1	4556.9
7.5°	4381.6	4420.0	4430.8	4456.9	4512.3	4563.0	4626.0	4583.0	4581.5	4536.9	4493.8
10°	4127.9	4104.9	4163.3	4201.7	4294.0	4378.5	4475.4	4470.8	4493.8	4443.1	4369.3
12.5°	3875.8	3857.3	3885.0	3972.6	4101.8	4224.8	4340.1	4297.0	4420.0	4410.8	4252.5
15°	3608.3	3622.1	3662.1	3743.6	3912.7	4060.3	4206.3	4207.9	4317.0	4353.9	4141.8
17.5°	3420.7	3405.3	3456.1	3577.5	3728.2	3905.0	4071.0	4104.9	4272.4	4294.0	4107.9
20°	3280.8	3302.3	3368.4	3429.9	3603.7	3817.4	4004.9	4017.2	4263.2	4321.6	4054.1
22.5°	3247.0	3234.7	3256.2	3356.1	3499.1	3731.3	3969.6	4015.7	4261.7	4312.4	3952.7
25°	3211.6	3251.6	3250.1	3350.0	3454.5	3662.1	3998.8	4049.5	4343.2	4360.1	3966.5
27.5°	3291.6	3287.0	3330.0	3337.7	3466.8	3680.5	4060.3	4098.7	4478.5	4464.6	3977.3
30°	3371.5	3348.5	3374.6	3465.3	3525.3	3786.6	4229.4	4226.3	4653.7	4644.5	4011.1
32.5°	3469.9	3459.2	3476.1	3556.0	3657.5	3928.1	4372.4	4463.1	4832.1	4890.5	4127.9
35°	3488.4	3532.9	3572.9	3680.5	3825.1	4157.1	4641.4	4716.7	5038.1	5221.0	4350.8
37.5°	3605.2	3622.1	3715.9	3906.5	4038.8	4463.1	4812.1	4859.7	5225.6	5433.2	4586.1
40°	3729.7	3749.7	3891.2	4091.0	4272.4	4662.9	4972.0	4987.3	5285.6	5596.1	4739.8
42.5°	3898.9	3917.3	4057.2	4307.8	4550.7	4833.6	5113.4	5130.3	5281.0	5783.7	4984.3
45°	4074.1	4118.7	4283.2	4567.6	4785.9	5033.5	5145.7	5214.9	5324.0	5951.3	5182.6
47.5°	4320.1	4361.6	4496.9	4775.2	5030.4	5208.7	5294.8	5362.5	5427.0	6097.3	5310.2
50°	4581.5	4589.1	4753.6	5005.8	5193.3	5407.0	5573.1	5596.1	5562.3	6266.5	5527.0
52.5°	4773.6	4798.2	4925.8	5171.8	5451.6	5714.5	5942.1	5966.7	5900.5	6329.5	5600.8
55°	4455.4	4441.6	4649.1	4976.6	5625.4	6172.7	6503.2	6521.7	6146.5	6524.7	5842.1
57.5°	3443.8	3509.9	3686.7	4081.8	4998.1	6375.6	6936.8	6870.6	6441.7	6623.1	5995.9
60°	2502.9	2487.5	2605.9	2870.3	3766.6	5494.7	6558.6	6626.2	6200.3	5969.7	4944.3
62.5°	2038.6	2017.1	2026.3	2035.5	2430.6	3646.7	4855.1	4853.6	4775.2	4290.9	3334.6
65°	1629.6	1680.4	1685.0	1754.2	1804.9	2178.5	2813.4	2964.1	2581.3	2117.0	1535.9
67.5°	1228.4	1209.9	1271.4	1517.4	1612.7	1572.8	1535.9	1552.8	1103.9	796.4	750.3
70°	724.1	716.4	790.2	1057.7	1328.3	1249.9	1157.7	1159.2	757.9	556.5	619.6
72.5°	396.6	395.1	410.5	536.6	754.9	784.1	694.9	716.4	452.0	450.5	484.3
75°	221.4	216.8	212.2	236.8	272.1	287.5	293.6	296.7	310.6	347.5	361.3
77.5°	81.5	78.4	78.4	90.7	115.3	144.5	183.0	186.0	219.8	252.1	266.0
80°	27.7	30.7	41.5	56.9	76.9	103.0	124.5	127.6	155.3	176.8	181.4
82.5°	16.9	18.4	27.7	40.0	55.3	72.3	92.2	93.8	115.3	129.1	135.3
85°	7.7	9.2	15.4	24.6	35.4	47.7	49.2	49.2	47.7	49.2	46.1
87.5°	0.0	0.0	3.1	3.1	3.1	4.6	6.1	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°	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1
2.5°	4607.6	4590.7	4538.4	4492.3	4478.5	4417.0	4326.2	4337.0	4270.9	4301.7	4269.4
5°	4544.6	4487.7	4353.9	4297.0	4147.9	4080.3	4034.1	3918.8	3865.0	3854.3	3808.1
7.5°	4383.1	4347.8	4180.2	4026.5	3868.1	3732.8	3559.1	3440.7	3356.1	3333.1	3265.4
10°	4255.5	4177.1	3945.0	3711.3	3485.3	3250.1	3024.1	2847.3	2761.2	2661.2	2627.4
12.5°	4129.5	4011.1	3697.5	3397.7	3105.6	2808.8	2535.2	2319.9	2132.4	2087.8	2072.4
15°	4051.1	3845.0	3476.1	3114.8	2699.7	2312.3	2038.6	1897.2	1781.8	1734.2	1768.0
17.5°	3948.0	3708.2	3263.9	2782.7	2326.1	1969.4	1740.3	1652.7	1611.2	1615.8	1602.0
20°	3818.9	3579.1	2985.6	2481.4	1992.5	1708.1	1577.4	1545.1	1551.2	1562.0	1557.4
22.5°	3726.7	3422.3	2784.2	2173.9	1721.9	1563.5	1509.7	1486.7	1506.7	1515.9	1508.2
25°	3655.9	3288.5	2539.8	1901.8	1565.1	1482.1	1457.5	1455.9	1486.7	1499.0	1491.3
27.5°	3591.4	3164.0	2296.9	1694.2	1460.5	1419.0	1411.3	1429.8	1449.8	1462.1	1472.8
30°	3552.9	3068.7	2069.3	1520.5	1408.3	1388.3	1374.4	1391.3	1402.1	1414.4	1408.3
32.5°	3589.8	3001.0	1849.5	1422.1	1365.2	1345.2	1363.7	1352.9	1371.4	1382.1	1365.2
35°	3705.1	2941.1	1692.7	1369.8	1316.0	1323.7	1326.8	1322.2	1329.9	1320.6	1340.6
37.5°	3818.9	2919.5	1548.2	1325.2	1293.0	1293.0	1289.9	1280.7	1296.0	1293.0	1302.2
40°	3963.4	2933.4	1425.2	1277.6	1271.4	1268.4	1256.1	1254.5	1248.4	1249.9	1253.0
42.5°	4089.5	2964.1	1354.5	1246.8	1251.4	1257.6	1234.5	1216.1	1223.8	1208.4	1208.4
45°	4223.2	2991.8	1291.4	1225.3	1220.7	1219.2	1200.7	1189.9	1183.8	1185.3	1199.2
47.5°	4433.9	3031.8	1243.8	1196.1	1199.2	1176.1	1171.5	1157.7	1163.8	1173.0	1174.6
50°	4583.0	3116.3	1206.9	1162.3	1173.0	1157.7	1130.0	1123.8	1123.8	1139.2	1136.1
52.5°	4687.5	3234.7	1171.5	1125.4	1130.0	1117.7	1108.5	1094.6	1085.4	1106.9	1117.7
55°	5007.3	3431.5	1162.3	1094.6	1093.1	1080.8	1063.9	1050.0	1045.4	1048.5	1070.0
57.5°	4976.6	3370.0	1133.1	1040.8	1037.7	1020.8	1003.9	999.3	997.8	1000.8	1007.0
60°	4040.3	2489.1	1011.6	979.3	974.7	971.6	954.7	936.3	927.1	936.3	928.6
62.5°	2673.5	1666.5	891.7	905.5	908.6	900.9	873.2	854.8	857.9	868.6	851.7
65°	1312.9	979.3	808.7	845.6	848.6	827.1	801.0	779.5	768.7	777.9	770.2
67.5°	750.3	748.7	741.0	779.5	777.9	756.4	714.9	696.4	678.0	681.1	676.5
70°	636.5	648.8	664.2	687.2	685.7	661.1	611.9	598.0	571.9	568.8	561.2
72.5°	501.2	522.7	556.5	573.5	559.6	528.9	496.6	473.5	450.5	436.6	441.2
75°	372.1	402.8	421.2	432.0	410.5	393.6	367.4	339.8	312.1	299.8	295.2
77.5°	270.6	279.8	296.7	304.4	290.6	273.7	258.3	230.6	204.5	187.6	183.0
80°	189.1	195.3	207.5	207.5	207.5	199.9	179.9	152.2	135.3	119.9	116.8
82.5°	132.2	138.4	150.7	144.5	143.0	133.8	121.5	99.9	81.5	70.7	67.6
85°	46.1	50.7	61.5	73.8	78.4	76.9	69.2	55.3	43.0	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	6.1
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)